TIM CARTER CLAUSEN - TheDecipherist

Full-Spectrum Technical Unicorn

I say what I do and I do what I say.

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PROFESSIONAL SUMMARY

Full-spectrum technologist and AI-assisted development pioneer with 25+ years building production systems at scale. Invented the **"Engram Memory Bank" methodology** for AI-assisted long-form research—a structured approach to persistent context across AI sessions that has enabled breakthroughs on cold cases and complex investigations. Authored the **definitive Claude Code guides** reaching **1.5M+ developers** (95%+ approval), recognized as the go-to resource for AI-augmented development. Built custom VS Code/WSL extensions for Claude workflow optimization; pioneered **parallel AI development workflows** running 1-6 concurrent Claude instances on separate projects simultaneously.

Career foundation in technical sales — top-performing seller across Denmark's largest consumer electronics chain — provides natural fluency in customer engagement, consultative selling, and translating complex technical concepts into business value. Deep expertise across the entire stack: hardware to cloud to audience. React 19, Next.js 16, TypeScript, Node.js, MongoDB, Docker orchestration, security hardening, growth engineering. Proven business impact: drove 180% conversion increase through optimization; maintained 99.99% uptime across 9-year infrastructure lifecycle serving millions of requests monthly with 4.7M+ lines of code under management. Published npm packages averaging 300+ weekly downloads; GitHub repositories accumulated **639+ stars**. Multi-model AI fluency across Claude, GPT-4, and Gemini with deep understanding of each model's strengths for different task types.

TECHNICAL SKILLS

Frontend & Frameworks: React 18/19, Next.js 14/16, Vue.js, AngularJS, Quasar, TypeScript, Vanilla JavaScript (deep expertise), Tailwind CSS 3/4, Framer Motion, HTML, CSS/SCSS

Backend & APIs: Node.js, Express, API design, microservices, Zod validation, NextAuth 5, Stripe integration, SendGrid

Data & Search: MongoDB 6/7/8 (10+ years replica sets in production), Mongoose, Elasticsearch 8.x (cluster management, ulimits, worker constraints), SQL (MS SQL, MySQL), data modeling, caching strategies

Testing & Quality: Vitest, Playwright (e2e), Testing Library, test coverage, CI/CD pipelines

Infrastructure & Platform: Docker (custom images, multi-stage builds, security hardening, Swarm orchestration, multi-service compose architectures), AWS (EC2, S3, infrastructure management), Linux (Ubuntu, Red Hat), nginx (10+ years production, zero crashes, custom hardened images, ModSecurity/WAF compilation from source, reverse proxy, load balancing, stream proxying), Postfix (mail server, SMTP/SPF/DKIM/SASL), VMware, network architecture, Dokploy, Portainer, Traefik

Security: ModSecurity, OWASP Top 10, CRS rules, WAF configuration, AppArmor, Wazuh SIEM, penetration testing, application security, secrets management, Kali Linux, Wireshark, MITM analysis, security hardening, anomaly scoring

Observability & Operations: DataDog (RUM, APM, logging, traces, AppSec, IAST, CPU profiling, network probes, custom events instrumentation, custom dashboard development), FullStory, Winston logging, monitoring, alerting, log analysis, performance optimization

DevOps & Build Tools: Git, Docker Swarm, pnpm workspaces, Rollup, tsup, Vite, npm publishing, Docker Hub CI/CD, Git commit SHA build versioning

AI-Assisted Development: Claude Code (expert-level—authored definitive guides with 1.5M+ views), Claude Code Hooks, VS Code + WSL workflow optimization, custom Claude Code extensions (screenshot path injection, keyboard shortcuts), Cursor, GitHub Copilot, multi-model fluency (Claude, GPT-4, Gemini), prompt engineering for complex code generation, AI-augmented architecture design, context window optimization

AI Research & Integration: Invented "Engram Memory Bank" methodology for AI-assisted long-form research (persistent context architecture across sessions), MCP server development, RAG pipelines, vector embeddings, Claude API, AI token optimization, Whisper ASR, HuggingFace Diffusers

Specialized: Wavesurfer.js (audio visualization), FFmpeg (audio/video processing), Sharp (image processing), Tiptap (rich text editor), rrweb (session replay), Recharts, TanStack Table, SWR, Ink (TUI development), Dropbox API

Business Systems: Sage X3 ERP integration, Stripe payment processing, e-commerce platforms, A/B testing (SiteSpect), conversion optimization, technical sales & consultative selling

Growth Engineering: Reddit algorithm optimization, viral content architecture, platform A/B testing, engagement threshold analysis, cross-platform traffic funnels, brand SERP domination, UTM analytics, audience psychology, international developer audience acquisition

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CURRENT PROJECTS

AI Video Generator - Developer | 2025 - Present

Flask-based web application for text-to-video generation supporting multiple AI models.

Key Achievements:

- **Built multi-model video generation platform** supporting 5 AI services (Google Veo 3, OpenAI Sora 2, Runway Gen-3, Pika 2.0, Stable Video Diffusion)
- **Implemented local GPU inference** using HuggingFace diffusers with Stable Video Diffusion; two-stage pipeline (text→image→video); memory-optimized for 8GB GPUs
- **Designed factory pattern architecture** with abstract base class for seamless model abstraction and easy extension
- **Created production-ready deployment** with Docker containerization, health checks, and environment-based configuration

Technical Environment: Python, Flask, HuggingFace Diffusers, PyTorch/CUDA, Docker, REST API

RuleCatch.AI — Co-Founder & Lead Developer | 2026 - Present

Real-time rule enforcement platform for Claude Code via hooks—preventing AI mistakes before they reach your codebase.

Key Achievements:

- **Built comprehensive rule engine** with 208+ rules across 18 categories, enforced in real-time via Claude Code hooks
- **Designed zero-knowledge encryption** using AES-256-GCM ensuring user data remains private; GDPR-compliant with US/EU data isolation
- **Developed MCP server integration** allowing Claude to query and fix its own rule violations autonomously
- **Founded on empirical research** from 6 weeks tracking every Claude Code tool call—discovered 50% of sessions had at least one violation, proving the need for automated enforcement
- **Built 59.9 million token dataset** from real-world Claude Code sessions to identify violation patterns and optimize rule triggers

Technical Environment: Node.js, TypeScript, Claude Code Hooks, MCP Servers, AES-256-GCM, MongoDB

DockerDoctor — Creator & Developer | 2026 - Present

Interactive CLI diagnostics tool for Docker environments, published on npm.

Key Achievements:

- **Built comprehensive diagnostics engine** with 50 checks across 11 categories for Dockerfiles, Compose files, and running containers
- **Designed split-pane TUI** with severity grouping, auto-fix capabilities, and clipboard copy using Ink
- **Implemented CI/CD integration** (`npx dockerdoctor --ci --severity error`) for automated Docker health checks in pipelines
- **Created programmatic API** for library usage, enabling integration into custom toolchains

- **Built smart compose discovery** that auto-detects non-standard Compose filenames across projects

Technical Environment: TypeScript, Node.js, npm, Docker API, Ink (TUI)

AI-Assisted Development & Research Methodology - Innovator | 2024 - Present

Pioneered novel AI collaboration methodologies and custom tooling, becoming a recognized authority on Claude Code with guides reaching **1.5M+ developers worldwide**.

Key Achievements:

- **Invented "Engram Memory Bank" methodology** for AI-assisted long-form research—structured approach to maintaining persistent context across sessions for complex multi-week investigations; successfully applied to cold case analysis achieving breakthroughs on Zodiac ciphers, Beale analysis, and historical investigations
- **Authored definitive Claude Code guides** (V1 through V5) reaching 1.5M+ combined views with 95%+ approval ratings and **639+ GitHub stars**; translated into 11 languages; recognized as go-to resource for Claude Code mastery covering MCP servers, custom agents, hooks, Plan Mode, context optimization, and advanced workflows
- **Published V5 guide** covering 60+ real projects, the renaming problem, Plan Mode contradictions, hooks that don't wait, TypeScript as non-negotiable, database wrapper patterns, and testing methodology
- **Created Claude Code Starter Kit** with 23 slash commands, 9 hooks, 10 rules, 2 custom agents, 2 skills, and 12+ project profiles—the most comprehensive Claude Code configuration template available
- **Built custom VS Code/WSL extensions** for Claude Code workflow optimization:

- Keyboard shortcut for instant screenshot path injection at cursor position

- Custom plugins enhancing Claude's capabilities in WSL environment

- Streamlined image-to-context workflows for visual debugging

- **Developed multi-model AI fluency** across Claude (Opus, Sonnet), GPT-4, Gemini, with deep understanding of each model's strengths for different task types
- **Created AI-augmented development workflows** combining Claude Code, Cursor, and traditional tooling for 10x productivity gains on complex codebases
- **Pioneered parallel AI development workflows** running 1-6 concurrent VS Code instances with independent Claude agents working on separate projects simultaneously; developed context-switching patterns and project isolation strategies for maximum throughput

Technical Environment: Claude Code, VS Code, WSL2, Custom Extensions, MCP Servers, Multi-Model Orchestration, Parallel Agent Workflows

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TheDecipherist - Founder & Growth Engineer | 2024 - Present

Built personal brand achieving **1.5M+ views** across technical content through systematic algorithm research and viral engineering, reaching developers across 25+ countries.

Key Achievements:

- **Reverse-engineered Reddit algorithm** through 6 weeks of systematic A/B testing; documented engagement thresholds, timing windows, and share velocity correlation (r=0.84)
- **Authored "MongoDB vs SQL in 2026" article** (thedecipherist.com/articles/mongo_vs_sql) that ranked #1 on Google above MongoDB's own official comparison page; independently endorsed by two MongoDB employees — Developer Advocate Franck Pachot and Software Architect Manager Tomas Arguinzones Perez — within hours of publication
- **Published "MongoDB 8.0 Replica Set Guide"** (thedecipherist.com/articles/the-mongo-replicaset-guide) — comprehensive 3,200+ line production guide covering replica sets, Docker Swarm deployment, TLS, backup strategies, and performance tuning; based on 10+ years running MongoDB replica sets in production with zero data loss
- **Generated 1.5M+ total views** across technical guides with multiple viral posts:

- Claude Code V2: 165,719 views (98% approval, 3,126 shares)

- Claude Code V3: 143,786 views (95.8% approval, 2,209 shares)

- Claude Code V4: 99,302 views in 12 hours (94.7% approval, 1,927 shares)

- Vibe Coding discourse: 137,379 views (327 comments)

- Docker Swarm guide: 74,136 views (88.6% approval, 615 shares)

- Open source tools: 100K+ combined views

- **Achieved #4 post of all time** on r/ClaudeAI (781K weekly visitors) within 12 hours of posting
- **Dominated brand SERP** owning 9 of 10 Google results for "TheDecipherist" within weeks of launch
- **Built cross-platform traffic flywheel** converting Reddit visibility → website traffic → brand searches → organic Google rankings
- **Created open-source Claude Code resources** on GitHub (639+ stars, 62 forks); comprehensive guides covering MCP servers, custom agents, hooks, context optimization, and advanced Claude workflows
- **Developed custom analytics infrastructure** with MongoDB logging, UTM tracking, image-embedded analytics, and real-time view monitoring

Technical Environment: Node.js, MongoDB, custom analytics APIs, Reddit API research, Google Search Console, UTM tracking, A/B testing methodology

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Open Source Packages - Published on npm | 2024 - Present

Published developer tools with **639+ GitHub stars**.

- **claude-code-mastery** (372 ⭐, 35 forks) — The definitive guide to Claude Code: CLAUDE.md, hooks, skills, MCP servers, and commands
- **claude-code-mastery-project-starter-kit** (137 ⭐, 20 forks) — The definitive starting point for Claude Code projects, based on Mastery Guides V1-V5
- **classpresso** (67 ⭐, 5 forks) — Build-time CSS class consolidation for utility-first frameworks; 50% faster style recalculation, 42% faster first paint
- **docker-swarm-guide** (44 ⭐, 2 forks) — The Complete Docker Swarm Production Guide for 2026; battle-tested configurations, VPS planning, monitoring, and deployment workflows
- **dockerdoctor** — Interactive Docker diagnostics CLI; 50 checks across 11 categories with auto-fix, TUI browser, and CI integration
- **rulecatch-sdk** — Official SDK for RuleCatch.AI; AI coding analytics, monitoring, and rule enforcement for Claude Code and Cursor
- **tersejson** (12 ⭐) — Compact JSON serialization format
- **classmcp** (5 ⭐) — MCP server for AI-assisted CSS development; 77% token savings with semantic class patterns
- **clip2path** — Paste clipboard images as file paths into the terminal; built for Claude Code workflows
- **wavesurfer-react-player** (2 ⭐) — React audio player with WaveSurfer.js waveform visualization and global state management
- **myprojectstats** — npm & GitHub stats CLI + API
- **credhopper** — Credential management utility

Technical Environment: TypeScript, Node.js, Rollup, pnpm workspaces, npm publishing, GitHub Actions

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PROFESSIONAL EXPERIENCE

Full Stack Software Architect | GradusGroup | 2017 - 2025 | Remote

Architected and maintained mission-critical enterprise platform serving 34 websites with 99.99% uptime over 8+ years. Managed 4.7M+ lines of code across ~17,000 files.

Key Achievements:

- **Built enterprise CMS from scratch** replacing Magento, serving 8,000 weekly users and millions of monthly requests with estimated multi-million dollar value and zero licensing costs; architected symlink-based multi-brand system serving 34

websites from shared codebase with 805K+ lines of hand-written documentation

- **Designed real-time ERP integration** with Sage X3 processing customer data, orders, quotes, and shipping; automated fulfillment workflows including EasyPost integration for package tracking with webhook-based status updates
- **Architected modular Docker Swarm infrastructure** with 6+ compose files, service extends patterns, multi-stage builds, and resource governance (CPU/memory limits and reservations) across all services; built ModSecurity v3 WAF from source as dynamic nginx module; designed polyglot containers (Python/Node.js/Chromium) with non-root execution security
- **Implemented complete email infrastructure** with Postfix mail server containers, SASL authentication, and SMTP/SPF/DKIM configuration ensuring reliable transactional email delivery
- **Deployed comprehensive observability stack** with DataDog (RUM, APM, logging, traces, AppSec, IAST, CPU profiling, network probes); instrumented application code with custom events, Unix socket APM for low-latency tracing, and built tailored dashboards for performance monitoring, alerting, and business metrics tracking; implemented FullStory for session replay and user behavior analysis
- **Configured enterprise nginx architecture** with ModSecurity WAF compiled from source, multi-zone rate limiting (API/frontend/static tiers), 50+ attack pattern regex blocking, DataDog APM tracing per endpoint, modular 10+ config include structure, and AWS ALB SSL termination handling; authored 1,600+ line production nginx Docker Swarm guide; maintained 100% nginx uptime over 10-year period
- **Secured production infrastructure** through WAF implementation blocking hundreds of thousands of attacks daily, secrets management (SSL certs, API keys, app secrets via Docker secrets), principle of least privilege, and regular penetration testing; authored 1,400+ line OWASP/ModSecurity security guide covering Top 10 vulnerabilities, stack-specific hardening, and anomaly scoring; maintained **zero security breaches over 10-year period**
- **Created dynamic JSON-based CMS** enabling non-technical users to manage 10k+ SKUs, categories, and product data; built visual page builder (similar to Webflow) with drag-and-drop functionality and template system
- **Built internal Chrome extensions** for cache busting and workflow automation, improving team efficiency
- **Designed disaster recovery architecture** enabling full system restoration in 5-10 minutes via Docker Swarm orchestration; successfully recovered from multiple infrastructure failures with minimal downtime
- **Managed hybrid cloud infrastructure:** 9 AWS EC2 instances + 2 on-premise VMware instances running Docker Swarm with MongoDB replica sets (10+ years, zero data loss, zero downtime) and Elasticsearch 8.x clusters; utilized S3 for asset storage and distribution; authored 3,200+ line production MongoDB guide covering replica sets, Docker Swarm deployment, TLS, backup strategies, and performance tuning

Technical Environment: Node.js, Express, Vue.js, MongoDB, Elasticsearch 8.x, Docker Swarm, AWS (EC2, S3), Git, nginx (custom hardened images), ModSecurity, AppArmor, Postfix, SMTP/SPF/DKIM/SASL, DataDog (full suite including AppSec, IAST), FullStory, Stripe integration, Gulp, SCSS

Senior Web Developer | B&H Photo Video | 2014 - 2017 | New York, NY

Drove revenue optimization through rapid A/B testing and feature development for high-traffic e-commerce platform.

Key Achievements:

- **Achieved 180% increase in holiday checkout conversions** through rapid A/B testing and UX optimization using SiteSpect
- **Developed high-impact features** for bhphotovideo.com including accessories recommendation page, interactive add-to-cart layer, promotional content system, and customer reviews section
- **Executed 100+ experiments** across checkout, cart, and product pages serving millions of monthly visitors
- **Built Chrome extensions** to streamline product testing workflows and improve team efficiency
- **Implemented FullStory** session replay for user behavior analysis and conversion funnel optimization
- **Engineered analytics proxy layer** to prevent browser plugin blocking, ensuring data integrity
- **Created custom promotions platform** enabling merchandising team to build dynamic product displays, substantially increasing sales

Technical Environment: JavaScript, HTML, CSS, SiteSpect (A/B testing), FullStory, Chrome Extension API, Git, high-traffic e-commerce architecture

Vice President | City-Office Danmark | 2000 - 2014 | Copenhagen, Denmark

Served as VP combining technical leadership with B2B sales — managed complete infrastructure and custom software development while simultaneously selling office space to US enterprise clients across Manhattan, Princeton, and Chicago.

Key Achievements:

- **Sold commercial office space** to US enterprise clients across Manhattan, Princeton, and Chicago markets — managing the full sales cycle from prospecting through close while simultaneously running all technical operations
- **Architected custom call center software** in C++ with voice response server, ACD server, and multi-PBX integration (Ericsson, Philips) for pre-VoIP telecommunications infrastructure
- **Built comprehensive intranet system** (ASP, PHP, MS SQL) serving 50 users for contract management, customer communications, and office space allocation with visual floorplan interface
- **Managed complete IT infrastructure** including mail servers (Exchange, SMTP/SPF/DKIM), Active Directory, DNS, DHCP, ISA servers, and Novell networks
- **Administered security infrastructure** and performed regular penetration testing to ensure system integrity
- **Led technical operations** for 14 years with responsibility for all infrastructure, development, and security decisions

Technical Environment: C++, ASP, PHP, MS SQL, Exchange Server, Active Directory, ISA Server, Novell, network infrastructure, telecommunications systems

PATTERN RECOGNITION & APPLIED CRYPTANALYSIS

Independent Research | 2025 - Present

Applied mathematical analysis, statistical cryptanalysis, and AI-assisted research to historical cipher systems and cold cases. Published at thedecipherist.com and thezodiacsolved.com with full methodology documentation.

- **Zodiac Killer ciphers:** Developed "checksum 6" methodology for analyzing cipher construction; published verifiable mathematical framework; built law enforcement reference document system with structured evidence presentation and empirical testing framework (28,756 names tested)
- **Beale Ciphers:** Conducted statistical cryptanalysis proving Ciphers 1 and 3 are likely hoaxes; identified 7× ascending run anomaly in C3 vs genuine C2, hidden alphabet sequence in C1, and zero repeated 3-grams; analysis aligns with NSA Friedman/Kullback findings
- **JFK Assassination (Oswald Analysis):** Mathematically proved Lee Harvey Oswald could not have been the shooter; timeline reconstruction shows 125 seconds required vs 90 seconds available for alleged escape route; theater manager testimony places Oswald buying popcorn at 1:15 PM—same time as Tippit shooting 1 mile away; physical impossibility of appearing calm after full sprint
- **Voynich Manuscript:** Proposed testable solution identifying text as medieval Italian poet's personal songbook; discovered right-to-left reading direction (Hebrew cursive influence); identified "8" symbols as musical rhythm markers; R→L reading produces Italian words ("TORO", "OLLA") matching recipe section context; theory: Judeo-Italian personal shorthand from 1420s Venice/Verona
- **March Impromptu cipher:** Analyzed Nazi-era coded documents using classical cryptanalysis techniques

Technical Sales — Top Performer | Fona (Denmark's Largest Electronics Chain) | 1994 - 1998 | Denmark

Launched career at age 14 in consumer electronics and custom PC sales, quickly becoming the top-performing seller across the entire national chain.

Key Achievements:

- **Achieved #1 sales ranking across entire Fona chain** — chain owner personally visited to acknowledge top performance out of all stores nationwide
- **Sold full consumer electronics portfolio** — computers, televisions, stereos, and peripherals; developed consultative selling approach matching technical specifications to customer needs

- **Built and sold custom PCs** — assembled systems to customer specifications, developing deep hardware-level expertise that became the foundation for 25+ years of full-stack architecture
- **Demonstrated natural sales instinct from age 14** — outperformed experienced adult sales staff through technical knowledge and genuine customer engagement

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EDUCATION

Bachelor of Computer Science

IT University of Copenhagen, Denmark

ADDITIONAL INFORMATION

- **Neurology:** Low Latent Inhibition (misdiagnosed "ADHD bad kid" for decades). Most brains pre-filter 90% of inputs. Mine doesn't. Every input hits a usefulness filter I don't control—pattern detected means vacuum-sealed obsession until solved, no pattern means physically cannot engage. This resume is what happens when that brain gets pointed at real problems.
- **Technical Sales Foundation:** Early career as #1 ranked sales performer across Denmark's largest electronics chain (Fona); natural ability to bridge deep technical expertise with business stakeholder communication and customer-facing presentations
- **Communication:** Danish directness. Hedging on known patterns feels like lying. I see it, I say it. This isn't arrogance—my brain genuinely cannot model why others don't see obvious things. Works great async. Meetings can be a war crime.
- **Remote Work:** 8+ years of proven remote work experience with exceptional productivity and communication
- **Languages:** English (fluent), Danish (native)
- **Started Computing:** Age 6 (Commodore 64), deep understanding of systems from hardware to application layer
- **Security Research:** Reverse engineering, penetration testing, MITM analysis for security hardening
- **Homelab Infrastructure:** 20+ containerized services including Wazuh SIEM, Whisper ASR for speech-to-text ML, Traefik orchestration, and media automation
- **Content & Growth:** Documented methodology for viral content engineering; available for consulting on high-intent audience acquisition
- **Open Source:** GitHub repositories at github.com/TheDecipherist with active community engagement