

Bryan Banner

AI Infrastructure & Systems Engineering

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First to compile modern Node.js on iOS

Cross-compiled Node.js runtime for native iOS execution

First Shellsort improvement in 25 years

0.52% fewer comparisons than Ciura, $p < 0.001$

First to run Claude Code on iOS

Full Anthropic CLI agent running natively on mobile

Built multi-model AI orchestration engine

Polaris: routes across Claude, GPT-4o, Gemini, Kimi with self-healing RAG

AI / ML Infrastructure

PRIMARY FOCUS

[Python](#), [LanceDB](#), [Voyage AI](#), [tree-sitter](#), [MCP](#), [FastAPI](#), [Claude API](#), [OpenAI API](#), [Gemini API](#), [PostgreSQL](#), [Redis](#)

- **Polaris** Multi-model orchestration: AST-aware RAG, phase-based QA gates, autonomous dev loops, delegation across Claude/GPT/Gemini/Kimi
- **CHEMMRAG** Code-aware retrieval: tree-sitter chunking, voyage-code-3 embeddings, hybrid search + RRF fusion, Voyage reranking, graph expansion
- **Project Hamlet** 1976 Earth sim: 9 LLM agents (4 premium + 5 free-tier), Smallville memory, bubble-scoped world, three-layer anachronism filter
- **GTO Poker Bot** Autonomous NLHE: SVG card vision, TexasSolver GTO with 3-tier cache (mmap/LRU/live), Playwright automation, villain profiling
- **Discord MCP Server** Single-file MCP server (300 LOC) for native Claude Code Discord access
- **IDE Extensions** VS Code (auto-config, semantic search) + IntelliJ (HTTP/2 proxy, response caching, cost tracking)

Systems Programming

DEEP EXPERIENCE

[C](#), [C++](#), [Rust](#), [x86_64](#), [MinHook](#), [CMake](#), [iOS cross-compilation](#)

- **Node.js on iOS** First modern Node.js cross-compilation to iOS ([github](#))
- **Claude Code on iOS** First native CLI on iOS ([github](#))
- **NBA 2K16 Co-op** DLL injection, MinHook trampolines, Ghidra RE. 2500+ lines of hooks.
- **Improved Shellsort** Evolutionary optimization, new gap sequence, statistically significant

Network Engineering

17+ YEARS

[TCP/IP](#), [BGP](#), [OSPF](#), [Wireshark](#), [MikroTik](#), [Cisco IOS](#), [VPN/SD-WAN](#), [HTTP/2](#), [TLS](#)

- **Polaris HTTP/2 Proxy** MITM proxy for API interception, token analytics, response caching
- **7+ MCP Servers** Discord, Godot, UE5, DaVinci Resolve, Dolphin, Bambu Lab

Enterprise network design and troubleshooting. The foundation for systems-level thinking.

Reverse Engineering & Security

DEEP EXPERIENCE

[Ghidra](#), [binary analysis](#), [memory hooking](#), [protocol RE](#), [x86_64 disassembly](#)

- **NBA 2K16** Mapped 0x1570-byte entity system, 256KB career save, input pipeline, cutscene engine
- **Game Protocols** Binary protocol decoding, packet inspection proxies, cache format RE

Web & Developer Tools

DEEP EXPERIENCE

[TypeScript](#), [React](#), [Next.js](#), [Tailwind](#), [Node.js](#), [Bun](#), [Playwright](#), [FastAPI](#), [WebSockets](#)

- **Polaris Dashboard** React 18 real-time: Recharts, xterm.js, WebSocket updates
- **Poker Bot Dashboard** FastAPI + WS: decision monitoring, villain stats, hand history

Non-traditional path. No CS degree. Built investment income covering living expenses. Everything above is self-directed work. Currently focused on AI devrel and infrastructure consulting.