

# Sam Trouy

Software Developer

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## Summary

Full stack developer and founding engineer with deep interest in AI/ML systems and meta-learning architectures. Early adopter of LLM-assisted development workflows and experienced in building complex web applications from the ground up. Strong systems thinking approach to technical problem-solving, with professional experience in Go, TypeScript, React, and AWS. Background includes sales and technical work.

## Experience

### Independent Developer, Apr 2023 – Present

*Took self-funded break to explore emerging tech and broaden technical perspective*

- Researched meta-learning architectures for LLMs, exploring systematic node insertion based on Hebbian learning principles
- Theorized adaptive neural network construction where learning ability improves through acquired knowledge
- Experimented with LLMs for development workflows, adopting AI-assisted coding early
- Explored functional programming (Elixir), Lisp dialects, and Ruby
- Prototyped agentic AI systems with self-modifying instruction sets and ability to think before answering
- Built CS2 server browser (github.com/smltr/findservers) using Go, Alpine.js, Vercel
- Started technical blog documenting insights at trouy.dev/blog

### Founding Software Engineer, SheetRocks, Apr 2021 - Apr 2023

*First hire at seed-stage startup building web-based spreadsheet app (sheet.rocks)  
Stack: Go, React, TypeScript, Jest, Docker, MongoDB, Redis, AWS, GitHub*

- Extended and enhanced core calculation engine, implementing complex formula logic and cross-sheet dependencies
- Owned development of key features: sorting algorithms, formula range selection, cross-sheet references
- Developed macro system enabling custom JavaScript execution within spreadsheet environment using Docker containers
- Optimized React rendering for large datasets: virtual scrolling, selective updates, sub-millisecond cell navigation
- Debugged and resolved critical issues in multi-threaded calculation pipeline: pointer bugs, race conditions, maintaining sub-250ms calculation times
- Maintained comprehensive test suite covering calculation logic, UI interactions, and data persistence
- Handled CI/CD pipeline and provided on-call support for production environment

## ***Experience (continued)***

### **Independent Developer, Oct 2020 - Apr 2021**

*Self-taught transition into software development to pursue remote tech career*

- Explored modern programming languages: started with Rust, transitioned to Go after finding better language fit
- Built portfolio website using Go and vanilla JavaScript, deployed to AWS as demonstration of cloud deployment skills
- Created web scraper with custom instruction language for automated purchasing during COVID supply shortages
- Developed real-time market monitoring bot for client project: scraped financial data and triggered Discord alerts based on market conditions

### **Wire Tech & Sales Consultant, AT&T, 2017-2020**

*Wire technician in Memphis, promoted to In-Home Expert (management-level sales), later retail sales consultant in Atlanta*

- Diagnosed and resolved complex telecommunications infrastructure issues
- Promoted to management-level In-Home Expert role with expanded sales responsibilities
- Consistently met sales targets while maintaining high customer satisfaction scores

### **Various Retail Sales Positions, 2011-2017**

*Initial foray into working world at Best Buy, Bed Bath & Beyond, Dillards*

- Specialized in technical product areas: computing hardware, digital cameras, mobile devices
- Completed advanced Nikon photography and video training program

## ***Technical Skills***

Languages: Go, TypeScript, JavaScript, Elixir, Ruby, Rust (explored), Lisp dialects

Frontend: React, Alpine.js, HTML/CSS, vanilla JavaScript

Backend: Node.js, Go web frameworks, RESTful APIs

Databases: MongoDB, Redis

Cloud & DevOps: AWS, Docker, Vercel, CI/CD pipelines

Tools: Git/GitHub, Jest (testing), Linux

AI/ML: LLM integration, prompt engineering, AI-assisted development workflows