Sam Trouy

Software Developer

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Summary

Full stack developer and startup founder specializing in AI/ML systems and complex web applications. Founded AI startup after serving as founding engineer at SheetRocks. Deep interest in meta-learning architectures, LLM-assisted development workflows, and systems thinking approach to technical problem-solving. Professional experience in Golang, TypeScript, React, and AWS. Ready to bring entrepreneurial mindset to collaborative development team.

Experience

Founder & Software Engineer, *LanguageLabs* ············· Apr 2023 – Oct 2024

Self-funded AI startup focused on agentic systems and meta-learning architectures

- Founded and bootstrapped startup exploring next-generation AI agent architectures
- Researched meta-learning systems for LLMs, developing theories on systematic node insertion based on Hebbian learning principles
- Prototyped agentic AI systems with self-modifying instruction sets and reasoning capabilities
- Explored adaptive neural network construction where learning ability improves through acquired knowledge
- Built proof-of-concept systems demonstrating AI agents that could think before responding
- Made strategic decision to transition back to employment after taking time off

Founding Software Engineer, *SheetRocks* ············· Apr 2021 - Apr 2023

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

- Developed and documented Golang REST API serving frontend application and backend calculation endpoints
- Managed blue-green deployment pipeline to AWS EC2 instances with S3 storage, using bash scripts for automation
- Implemented NoSQL data architecture using Redis for spreadsheet data storage and MongoDB for user metadata
- Extended core calculation engine in Golang and owned key features: sorting algorithms, formula range selection, cross-sheet references
- Developed macro system enabling custom Python execution within spreadsheet environment using Docker containers
- Optimized React rendering for large datasets: virtual scrolling, selective updates
- Managed deployment workflow: approved merge requests, monitored dev deployments, oversaw production releases
- Provided on-call support for production environment and handled customer issue resolution

——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, Dillard's

- 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