



Founder of **aifutures.dev**, an independent product lab building instruments for the agentic age — software that trades live markets, maps living codebases and commands fleets of autonomous agents, with human judgment wired into every loop. Full-stack developer with an M.S. in Computer Science, previously shipping production marketplace apps used by 200+ users at Airbnb. Operating principle: machine speed, human judgment, provable evidence.

EXPERIENCE

Founder & Principal Builder — aifutures.dev

Independent Product Lab — Chicago, IL · aifutures.dev

2026 — Present

- Built and shipped three production systems solo — architecture, engineering, verification, docs and launch — developed in public on GitHub
- **AI Futures Trader** (live): real-time auction analysis across ES, NQ, GC and CL with TPO profiles, 70% value-area mapping and point-of-control; human confirmation gate on every entry, server-side brackets and kill switches enforce 0 naked positions
- **AIFlow**: repository cartography mapping system architecture at AST level with file:line evidence across TypeScript, Python, Go and Rust; fully self-hosted — 1 command to map, 0 bytes uploaded, 38 tests green
- **Agent Control Center**: local-first control plane running 3 agent runtimes (Codex, Claude, OpenClaw) in isolated git worktrees through a 7-stage verify loop, with sealed SHA-256 evidence and Ed25519-signed federation — 100% human final say

Computer Information Systems Tutor

Wilbur Wright College · City Colleges of Chicago — Chicago, IL

Oct 2025 — Present

- Provide individual and group tutoring across CIS subjects: programming, databases, algorithms, and web development
- Lead workshops on study skills and applied problem-solving; develop personalized learning plans aligned with course objectives

JavaScript Developer I

AXANEXA — Chicago, IL

Feb 2023 — Nov 2023

- Architected and delivered a resource management application on monday.com for Airbnb, adopted by 200+ team members for day-to-day project coordination and resource allocation
- Launched the company's inaugural Dependent Dropdown app on the Monday.com Marketplace — first-ever marketplace listing, now used across multiple client organizations
- Built a Role Assignment system capable of processing hundreds of concurrent tasks with intelligent API rate-limit queuing and GraphQL batch optimization
- Pioneered reactive UI/UX design patterns across desktop and mobile, reducing user onboarding friction and increasing adoption

Teaching Assistant — Accelerated Intro to CS

Illinois Institute of Technology — Chicago, IL

Aug 2016 — Dec 2017

- Assisted professor in lab sessions for 60+ students; held weekly office hours and graded assignments with detailed feedback
- Identified common misconceptions and developed targeted exercises that improved class average by ~12%

Digital Communications, Institutional Advancement

Illinois Institute of Technology — Chicago, IL

Nov 2015 — Dec 2017

- Administered IIT Alumni and Mies Van der Rohe Society websites; migrated legacy media database improving load performance by 40%
- Produced Giving Day 2016 promotional video; published digital content reaching 10,000+ alumni and donors

Mathematics Tutor

Wilbur Wright College · City Colleges of Chicago — Chicago, IL

Jun 2014 — May 2015

- Delivered personalized math tutoring (Algebra through Calculus) to 30+ students per semester with 95%+ satisfaction rating

OTHER PROJECTS

ClawSwarm — Multi-Agent AI Orchestration (OSS + hosted platform)

Autonomous orchestration with three specialized chiefs: CodeClaw (code), ResearchClaw (research), OpsClaw (infrastructure). 3-tier quality gate: ≥8 auto-approves, 5-7 escalates to human review, <5 auto-reworks. Real-time WebSocket streaming dashboard, replay logging, per-agent workspace isolation. ~65% auto-approve across 50+ soak tests. [clawswarm.app](#)

TypeScript · Convex · Next.js · WebSockets · AI Architecture

AgentAwake — AI Productivity SaaS + Agent Memory Playbook

Full-stack SaaS with tiered Stripe billing, automated Resend drip sequences and audience pipeline — confirmed end-to-end in production. Includes a free 36-chapter playbook on building AI agents with persistent memory (Claude, ChatGPT, CrewAI, LangChain, n8n & more). [agentawake.com](#)

Next.js · TypeScript · Stripe · Resend · Vercel · SaaS

Market Profile Guide & ETH Smart Contracts

Interactive trading education platform for market profile theory and price-action structure ([live on Vercel](#)) · Ethereum smart contract development platform streamlining write-test-deploy workflows for on-chain apps.

Next.js · React · Tailwind CSS · Solidity · Web3.js

EDUCATION

M.S. Computer Science

California State University, Fullerton

B.S. Computer Science

Illinois Institute of Technology

A.S. Computer Science

Wilbur Wright College

TECHNICAL SKILLS

LANGUAGES

JavaScript · TypeScript · Python

Solidity

FRONTEND

React · Next.js · Tailwind CSS

Framer Motion

BACKEND & APIS

Node.js · GraphQL · REST APIs

WebSockets

PLATFORMS & TOOLS

Monday.com SDK · Make.com · Vercel

Stripe · Convex · Resend · Git / GitHub

AI & ARCHITECTURE

Agent Systems · LLM Integration

Multi-Agent Orchestration · RAG / Retrieval

MCP · AST Analysis · Local-First Systems

MARKETS & SECURITY

Market Structure / TPO · Risk Controls

Ed25519 / SHA-256

HONORS & AWARDS

- ✦ IIT Presidential Scholarship
- ✦ Class Salutatorian
- ✦ Phi Theta Kappa Honor Society
- ✦ All Illinois Academic Team
- ✦ Presidential Scholar Semi-finalist

LANGUAGES

🇻🇳 Vietnamese — Native

🇺🇸 English — Professional

INTERESTS

AI Systems Design · Agent Architecture
Education & Mentorship · Web3 / DeFi
Open Source · Market Structure Trading