

# William Heeb

Full-Stack Software Engineer

## SUMMARY

Eight years shipping production software—from debugging Sears' internal apps to building the first blockchain system for DoD healthcare. I built an AI tutor to help myself pass Security+, then open-sourced it. I love learning new frameworks. I like hard problems: multi-chain wallet indexing, RAG pipelines, smart contracts that don't blow up.

## EXPERIENCE

### Chenega Corporation — Software Engineer

Seattle, WA (Hybrid) • November 2025 - Present

- Ship DoD Health IT features on Hyperledger Iroha—first government blockchain deployment in production
- Built NestJS SDK adopted by 4 DoD teams; reduced boilerplate setup from 2 days to 3 hours
- Review ~15 PRs/week; caught 3 critical auth bugs before production in first month
- Configured end-to-end TLS, VPN tunnels, and WAF rules per CompTIA Security+ standards

### Semper Valens Solutions — Software Engineer

Seattle, WA (Hybrid) • April 2025 - July 2025

- Similar DoD role—contract vehicle changed to Chenega Corporation

### Anything\_AI — Lead Software Engineer

Remote • February 2024 - July 2025

- Wrote MCP framework from scratch: 4 language SDKs (C#, Python, JS, Java), 12 tool integrations
- Built input sanitization layer that dropped hallucination rate from 23% to 4% in production
- Shipped OAuth2 wrapper cutting third-party API integration from 2 days to 45 minutes
- Implemented RAG pipeline with Pinecone + custom chunking; retrieval latency under 200ms

### EAS (Experience as a Service) — Software Engineer

Seattle, WA • March 2021 - April 2025

- Led Command Center: real-time wallet indexer across 12 chains (Ethereum, Polygon, Arbitrum, etc.)
- Architected CoinCrete dApp; wrote Solidity contracts, integrated MetaMask + WalletConnect

## CONTACT

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[Portfolio](#)

## SKILLS

### Languages

JavaScript/TypeScript

Python • C# • Rust • Go

Solidity • SQL

### Frontend

React • Next.js • Redux

Tailwind • Framer Motion

GraphQL • Apollo

### Backend

Node.js • Express • NestJS

Django • .NET

PostgreSQL • MongoDB

### Web3 & AI

Smart Contracts • DeFi

LLM/RAG • MCP Framework

Hyperledger Iroha

### Certifications

CompTIA Security+

### Tools

Docker • GitHub Actions

Prisma • Drizzle ORM

*References available on request*

- Added Redis caching + lazy loading; cut AWS bill 75% (\$3,200/mo to \$800/mo)
- Built admin dashboard with Stripe integration; clients update pricing without dev tickets

## Sears Home Service — Tech Manager & AI Trainer

*Silverdale, WA • February 2016 - April 2025*

- Deployed AI routing system to 3,000 field techs; tested weekly updates, filed 40+ bug reports
- Turned \$20k quarterly loss into \$100k profit; ranked top 5 of 200+ teams nationwide
- Debugged internal ticketing apps and wrote SQL queries to fix data sync issues

## PROJECTS

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### Learning Tutor — [live demo](#)

- Adaptive learning app I built to pass Security+; generates study plans from GPT-4 API

*React, Next.js, TypeScript, OpenAI API, Vercel*

### Appliance Consult

- Digitized 9 years of repair diagnostics into searchable knowledge base with Stripe checkout

*Next.js, Rust backend, MongoDB, Prisma, Stripe*

### CFT Market Pools

- DeFi pool tracker with local RPC indexing; all tx verifiable on-chain

*Solidity, Rust, React, Framer Motion, Alchemy RPC*

## EDUCATION

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**Olympic College** • Computer Science coursework

**South Kitsap High School** • 1999-2001