

Chanwu (Tyler) Oh

Backend developer who builds and runs services end to end, from Go code to AWS infrastructure.

Builds with AI agents through harness engineering: specs, context, and review gates.

Korean-English bilingual: reads docs and specs at the source and shares them with the team.

Projects

[Cha Physical Therapy](#)

Web app for an NYC physical therapy clinic

Infra: AWS, Docker, Cloudflare | BE: Go, MySQL | FE: JS, CSS, HTML

Aug 2025 - Present

Role: Freelance contract. **Sole developer who designed, built, deployed, and operates the service**

Squarespace → AWS Migration

Problem: Squarespace limited UI customization, and injected custom CSS/JS slowed page responses

Solution: Won the move to AWS with a **working GitHub Pages demo**, then rebuilt the site in Go with Docker

Self-Serve Frontend Publishing

Problem: A non-technical owner needed to publish with AI agents, with no backend or cloud access, while keeping Go's redirects, analytics, and form fallbacks

Solution: Split the site into its own repo on **AWS Amplify behind a Cloudflare Worker**; froze route, form, and link contracts, enforced by **Python checks, a browser smoke test, a CI gate, and Gitleaks**

Result: Changes ship via PRs with Amplify previews; a clinic staffer has shipped a form fix this way

Outage Recovery and Hardening ([postmortem](#))

Problem: In Apr 2026 the site went down for 2h 54m while EC2 status checks kept passing

Analysis: Ruled out OOM via the systemd journal; CloudWatch showed the **gp3 volume pinned at its 125 MiB/s ceiling** by unindexed admin-dashboard queries on a shared root volume

Solution: Restored on a fresh instance with no customer data loss, then added **CloudWatch alarms, query time limits, log rotation, and indexes found with EXPLAIN**

Lesson: Cloud limits fail silently, so monitor them explicitly; internal tools are production too

[Jobcron](#)

Job-post briefing with AI fit scoring

Infra: AWS, Terraform, Docker, Cloudflare | BE: Go, PostgreSQL

May 2026 - Present

Goal: One daily briefing of entry-level posts from Korean job boards, each with an **explained fit score**

Infra: Go on **EC2 and private RDS via Terraform**; releases gated on an encrypted backup restore; built via harness engineering with multiple AI agents

AI: Two-stage LLM scoring where **every adjustment must quote the post**, with capped deltas, a token budget, caching, and a deterministic fallback

- Goal: A portfolio that holds up on **desktop, tablet, and mobile**
- Solution: Hand-built a **responsive layout with CSS breakpoints and JavaScript**; WebP images; GitHub Pages
- Lesson: Hand-built UI taught me fundamentals and why declarative frameworks exist

Education

Samsung Software & AI Academy for Youth (SSAFY)

Seoul · 16th cohort

Coding track - Java major class

Jul 2026 - Present

- Ranked 1st in my non-major class and 2nd across the non-major cohort on subject and monthly exams; passed a technical interview to move up to the Java major class
- Vice class president of the Java major class
- AI Challenge (Kaggle Korean VQA, 217 teams, team of 4): raised the team's score from 0.956 to 0.974 (1st in my class) with logit scoring, debiasing, LoRA, and ensembling

Self-study

2025 - 2026

- Switched from a US law-school path to software. Memorization (105,000-word Anki decks) hit its limits, so I moved to building services and hand-coding tools like [Git](#) and [Claude Code](#) from scratch ([hand-coded](#)).

Courses

[Web Development w/ Google's Go](#)[freeCodeCamp JavaScript](#)[freeCodeCamp Web Design](#)

Books

[Head First Go](#)[Head First Java](#)[This Is Coding Test with Python](#)

Hanyang University

Seoul · 2017 - 2025

B.A. in International Studies

GPA 3.91 / 4.5 (cum laude)

Skills

Languages: [Go](#)[Java](#)[Python](#)[JS](#)

Database: [MySQL](#)[PostgreSQL](#)[MongoDB](#)

Infra: [AWS](#)[Docker](#)[Terraform](#)[Cloudflare](#)

Tools: [Git](#)[GitHub Actions](#)[Linux](#)

Open Source

freeCodeCamp

JS curriculum

- [PR #66981](#) (merged): corrected inaccurate content in the WeakSet lesson

Certifications

TOEFL iBT

119 / 120

- C2 (native level)

LSAT

173 / 180 (top 1%)

- Reading and logical reasoning test for US law schools

Military Service

2nd Operations Command

Daegu

KR-EN interpreter

2018 - 2020