

Aidan Flynn

aflly.dev • flynnaidan@gmail.com • linkedin.com/in/flyai

Full-stack Software Engineer II with strong ownership of **platform-critical services** in **resource-constrained environments**. Proven ability to dive into legacy systems, debug complex infrastructure, and ship **reliable, scalable features** end-to-end.

Work Experience

VECTRA AI

SWE II, Platform Team Austin, March 2025–Present

- Built full-stack feature with cross-geo team (Dublin/Austin). Designed and implemented eventually consistent architecture for **unreliable environments**.

SWE I, Platform Team Austin, June 2023–March 2025

- Refactored full appliance backup/restore framework, **cutting downtime by 85%** and **file size by 31%**.
- Took over network metrics pipeline, cut report generation time from **2.5 hours to 7 minutes**, aiding our biggest customer PoVs..
- **Enhanced peacetime value** for SOC teams by designing, implementing secure visual report PDF renderer (Playwright + headless Chrome).
- Took ownership of murky problem spaces; frequently the **go-to** for inherited issues due to wide domain knowledge and fast ramp-up.
- Performed creative, **deep Linux analysis** of heavily loaded boxes to quickly root cause release blockers.
- Debugged complex issues in **live customer environments** across time zones under pressure.
- Maintained high standards in code reviews, test coverage (unit + integration), and cross-team communication.

Intern, Frontend Team Summer 2021

- Built full-stack events timeline for cross-appliance debugging, **accelerating issue triage** across teams

UNIVERSITY OF MICHIGAN

Full-stack Developer Ann Arbor, March 2020–June 2023

- Built COVID-era webapp used for **4M+ symptom surveys** for State of Michigan with small team.
- Hands-on full-stack work developing React, Django apps for classroom tech monitoring, collaborative quizzes, lecture viewing (used by **45,000+ students**).

DELOITTE CONSULTING

Solutions Engineering Intern Summer 2022

- Translated client needs into practical development tasks for Salesforce implementation project.
- Hands-on experience with Jira, agile delivery, and frequent travel to client site for alignment and rollout.

Education

BSE Computer Science

University of Michigan, Ann Arbor

Cum Laude

Classwork:

- **Machine Learning:** Built CNN that achieved 82% AUROC on dog breed detection task.
- **Security:** Developed MITM attack in Go, simulated web exploits.
- **Networks:** Implemented CDN, TCP clone (UDP), and RFC-compliant ARP system in C.
- **Extracurricular:** Multiverse Media (video editor), UM Powerlifting, fraternity member

Technologies and Languages

Languages:

- Python, JavaScript (3+ yrs React), Bash, C/C++, HTML/CSS/SCSS
- **Familiar:** Java, Golang, SQL

Frameworks and tools:

- **Python:** Flask, Celery, Click, Gunicorn, Pytest, Unittest
- **Frontend:** Node.js (and NPM), Express, React (+Next.js, Redux), Ember.js, jQuery, Bootstrap, SemanticUI, MaterialUI
- **DevOps:** Jenkins (Groovy), Systemd, CGroups, Docker/Podman, Debian packaging (dpkg, apt)
- **Other:** CouchDB, RESTful API design, MQTT, AppArmor, FUSE, WebAssembly, Playwright

Projects

A few recents (more at aflly.dev):

- Financial report scraper in Python for quarterly, annual **SEC-published earnings data** to compare Fortune 500 stocks.
- Proof-of-concept tool chaining **ChatGPT, Whisper, and Google Image Search** to generate unlimited TikTok-style content. On my Macbook Air, it can generate **79 days of content** if run for a year.
- Rewrote Vectra in-browser .zip file viewer (for logs) in React, added full-text search plus fuzzy-file finding.
- Mocker, a small tool to load and run **OCI-compliant images** on Linux.

Interests

- Language learning (conversational Spanish, basic German & French)
- International travel, lifting, coffee, Western literature, jazz / blues guitar, French cooking