Garrett G. Fincke

Full-stack developer specializing in clean code, scalable systems, and modern web/mobile architecture garrettfincke@gmail.com | 724-777-7186 | fincke.dev | github.com/ggfincke | linkedin.com/in/garrett-fincke

Education

The Pennsylvania State University

Bachelor of Science in Computer Science

Aug 2021 - Dec 2024 University Park, PA

Experience

Scale AI Software Engineering Contractor

May 2024 - Jul 2025

Remote

• Built internal tooling and harnesses to evaluate LLM-generated code for top-tier technology clients

- Automated compilation, execution, linting, and test orchestration to measure pass@k and correctness
- Designed training/eval data pipelines (schema versioning, validation, deterministic sampling) that replaced manual review with scripted checks and reduced turnaround time
- Instrumented metrics and built dashboards (syntax/style error rates, test failure modes); triaged failures with research/eng partners to accelerate model iteration cycles
- Enforced schema normalization and deduplication at ingest via scripted checks for data quality assurance

Pennsylvania State University

Aug 2024 - Dec 2024

CMPSC 475 Learning Assistant (iOS / Applications Programming)

University Park, PA

- Mentored students in iOS/mobile application development using Swift and SwiftUI
- Collaborated with faculty to tailor instruction based on student progress and technical challenges

Pink Ocean Collectibles

Apr 2020 - Present

Owner / Operator

Online E-commerce

• Build and operate multi-channel storefront with 2000+ sales, \$75k+ lifetime profit, and 100% positive feedback

Projects

Hopper — Java, Go, Spring Boot/Security, PostgreSQL, Flyway, React, TypeScript, Gradle

Cross-platform inventory management for e-commerce sellers; centralizes listings and orders across marketplaces.

- Design a marketplace-agnostic domain; enforce unique SKU per marketplace and referential integrity
- Build inventory sync workflow that computes stock deltas from local events and reconciliation passes
- Architect hybrid system with Java/Spring Boot orchestration and Go microservice for platform interactions

TrackBasket — TypeScript, Python, Supabase, Next.is, React, OpenAI, PostgreSQL, Docker

Deployed price tracking platform monitoring 30k+ products across 4 major retailers with AI-powered features.

- Developed chat-to-basket feature using OpenAI API that converts natural language into structured baskets
- Designed comprehensive backend infrastructure with Edge Functions, fuzzy search, and real-time notifications

Minecart — TypeScript. Node.is. Docker. Docker Compose. RCON. AWS (EC2. SSM, CloudWatch)

Discord bot that manages Minecraft servers across local Docker and AWS EC2 instances

- Built provider abstraction (Docker+RCON vs EC2+SSM) for seamless swap between local and cloud hosting
- Server properties editor (w/ RAM auto-calc); Health monitoring via SSM/CloudWatch; drift detection
- SSM-only backups/log retrieval, robust locking/error handling, modular ESM TypeScript with lean IAM

SwimMate — Swift, SwiftUI, HealthKit, WatchKit, Swift Charts, WatchConnectivity

Native iOS/watchOS app for swimmers with comprehensive tracking and Apple Watch integration

- Built custom components using HealthKit and SwiftUI for workout creation and performance visualization
- Connected iOS app to Apple Watch for real-time workout data tracking and displaying rich metrics
- Support both pool and open-water swims with GPS distance tracking and comprehensive HealthKit integration

Technical Skills

Languages: Python, Swift, JavaScript/TypeScript, Java, Kotlin, Go, C, C++, SQL, Solidity, Verilog

Frontend & Mobile: React, Next.js, SwiftUI, UIKit, Tailwind CSS, HealthKit, Core Data

Backend & Data: Django, Node.js, Spring Boot, FastAPI, PostgreSQL, Redis, Supabase, REST APIs

AI/ML: OpenAI/Anthropic APIs, PyTorch, TensorFlow, Keras, scikit-learn, pandas, NumPy, Jupyter

Cloud & DevOps: AWS (EC2, SSM, CloudWatch), Docker, Docker Compose, GitHub Actions, CI/CD, Vercel