Garrett G. Fincke

Full-stack developer specializing in clean code, scalable systems, and modern web/mobile architecture
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Education

The Pennsylvania State University Aug 2021 – Dec 2024
Bachelor of Science in Computer Science *University Park, PA*

Experience

Scale AI May 2024 – Jul 2025
Software Engineer (contract) *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.js, 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.js, 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