Garrett G. Fincke

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Full-stack developer specializing in scalable systems and modern web/mobile architecture

EDUCATION

The Pennsylvania State University   University Park, PA

Bachelor of Science in Computer Science   December 2024

EXPERIENCE

Scale AI – *Remote*

Contract | May 2024 – Present   *Python, Typescript, Javascript, PostgreSQL, Java, C*
- Contributed to AI-based projects for leading technology companies including Google, Meta, & OpenAI
  - Example: Contracted to support development of [Google's Stitch UI coding design tool](#), improving the tool's AI-generated interface development capabilities.
- Evaluated and quality-tested AI-generated code across numerous languages to enhance logical reasoning.
- Designed contextual frameworks and curated high-quality datasets focused on clean, optimal solutions.
- Created evaluation metrics that directly contributed to improving code generation capabilities of AI models.

PROJECTS

TrackBasket | [GitHub](#), [Live App](#)

December 2024 – Present   *TypeScript, Python, React/Next.js, Supabase, PostgreSQL, Swift*
- Deployed a full-stack price tracking platform monitoring 30k+ products across major retailers
- Implemented automated data normalization pipeline with category standardization, product deduplication, and brand name normalization to ensure consistent cross-retailer product matching
- Engineered AI-powered natural language basket builder using OpenAI API that converts natural language queries into structured shopping baskets, integrated with Supabase edge functions for real-time database updates
- Developed sophisticated web crawling system with CAPTCHA solving, anti-bot countermeasures, intelligent rate limiting, and concurrent processing of 10+ simultaneous crawler workers
- Built scalable backend infrastructure including Edge Functions, PostgreSQL with advanced indexing, UPC-based cross-retailer matching, Row Level Security, and real-time notification system

SwimMate | [GitHub](#)

Feb 2024 – June 2024, May 2025 – Present   *Swift, SwiftUI, HealthKit, WatchKit*
- Designed native iOS/watchOS swimming app with MVVM design pattern supporting real-time workout tracking and cross-device synchronization for 100+ structured swim sets
- Integrated Apple Watch features using HealthKit and WatchKit to capture in-pool metrics and deliver premade swim sets to users
- Built a custom workout entry system, lap timer, and historical performance charting tools using SwiftUI
- Implemented seamless iPhone-to-Watch set delivery and bi-directional real-time workout data synchronization

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript/TypeScript, C, Swift, Java, HTML5, CSS3
- **Frameworks & Libraries:** Django, Node.js, React, Next.js, pandas, NumPy, scikit-learn, PyTorch, TensorFlow, matplotlib, seaborn, SwiftUI, UIKit
- **Database Technologies:** SQL (SQLite, PostgreSQL), Firebase/Firestore, Django ORM, Supabase
- **Backend/DevOps:** REST APIs, Redis, Celery, Docker, Git, GitHub Actions