

Sean Wong

Software Engineer

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Skills

</> Languages: Swift, JavaScript, Python, SQL, HTML, CSS

📦 Frameworks/Libraries: UIKit, React, Node.js, Express.js

🗄️ Data/APIs: Core Location, Core Data, MapKit, PostgreSQL, MongoDB, Redis, REST APIs

🛠️ Tools/Platforms: Docker, Nginx, AWS, Git, Bash, Linux, R

Software Experience

StrideBound

Independent iOS Developer

2025 – Present

- Built and published StrideBound to the Apple App Store, a native iOS fitness app with game-inspired progression.
- Implemented **background location tracking** to record active runs in real time during workout sessions.
- Used MapKit to render routes and surface run metrics including distance, pace, duration, and activity history.
- Integrated **Core Data** for local persistence of workout and profile data across sessions.
- Handled background location permissions and run-state persistence to maintain a reliable tracking experience.
- Designed native iOS flows for reviewing workout history, route data, and progression over time.
- Continuing active development post-launch, shipping feature improvements and app polish.

Questions & Answers Microservices API

Back-End Engineer

April 2023 – June 2023

- Improved query response times by **10x** using PostgreSQL aggregate functions and indexes.
- Scaled a microservice to handle up to **1000 requests per second** using Nginx and Redis caching.
- Detected system bottlenecks with **Loader.io** and htop stress testing, resulting in an **8x performance improvement**.
- Deployed the service with **Docker**, ensuring consistent development and deployment environments across platforms.

CupQuest

Full-Stack Engineer

June 2023 – July 2023

- Built social features for a mobile-first café discovery app, including shop search, reviews, and friend connections.
- Designed a MongoDB user schema for friend relations and retrieval logic for connected users and social graph data.
- Achieved **75%+ test coverage** through unit and integration testing with Jest, Enzyme, and React Testing Library.
- Leveraged React Router and Express routing to establish a RESTful API following best practices for resources.

Drosophila Clicker

Software Developer

2018

- Built a computer-vision automation script that navigated a GUI using motion detection between consecutive frames.
- Reduced false positives by establishing threshold logic to distinguish meaningful motion from visual noise.
- Created an automated virtual user with PyAutoGUI to progress experiments based on detected events.

Additional Experience

UC San Diego

Instructional Assistant

Winter 2019

- Led review sessions, office hours, and student support for a 195-student biology course
- Praised in student and instructor evaluations for responsiveness, preparation, and clear communication.

Education

Hack Reactor – Advanced Software Engineering Immersive Program

2022 – 2023

California Northstate University College of Medicine – Coursework in Doctor of Medicine

2020 – 2022

University of California, San Diego – B.S. in Human Biology • Provost Honors | GPA: 3.708

2015 – 2019