

Jimmy Chen

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Education

Cornell University, College of Engineering

B.S. in Computer Science

Ithaca, NY

Expected May 2028

GPA: 3.51/4.0

Related Coursework: Intro to Python, iOS Dev., Discrete Structures, Multivar. Calculus, Linear Algebra

Planned FA '25: OOP & Data Structures, Functional Programming, Digital Logic & Computer Organization, Probability Models & Inference

Experience

Web Developer

Jun 2023 – Nov 2023

New York Tutoring Center

Remote

- Led cross-functional team of 5 developing websites using HTML, CSS, JavaScript, React.js, and modern frameworks.
- Communicated with clients to gather technical requirements and deliver scalable, user-friendly web solutions.
- Facilitated agile development practices through weekly sprint planning meetings, task delegation, progress tracking, and debugging sessions, ensuring on-time project delivery and code quality.

Projects

Stridr - iOS Run Tracker App | SwiftUI, Supabase, MapKit, HealthKit, Core Location

May 2025 – Jun 2025

- Developed full-stack iOS mobile application featuring real-time GPS tracking, interactive route mapping, and comprehensive workout analytics with cloud synchronization and data persistence.
- Implemented advanced fitness tracking algorithms including distance calculation, pace monitoring, time tracking, and calorie estimation with pause/resume functionality and countdown timer features.
- Integrated Apple HealthKit SDK for seamless workout data syncing to Apple Health ecosystem and Supabase backend for secure cloud storage with authentication and magic link login.
- Built responsive SwiftUI user interface with MapKit integration for route visualization, workout history dashboard, and performance analytics with data visualization.

Munch! - iOS Food Discovery App | SwiftUI, Firebase, MapKit, REST APIs, Figma

Apr 2025 – May 2025

- Won Best UI/UX Award at Cornell AppDev Hackathon among 19 teams (80+ participants) for exceptional user interface design and user experience.
- Developed iOS frontend for full-stack food discovery application using SwiftUI framework, featuring restaurant search functionality, social networking features, and automated bill-splitting algorithms.
- Implemented computer vision and OCR receipt scanning with OpenAI GPT API integration to parse itemized bills and automatically generate Venmo payment requests with precise amount calculations.
- Integrated multiple third-party APIs (OpenAI, CoreLocation, Venmo API) creating seamless end-to-end user journey from restaurant discovery to automated payment processing.

Website Development, New York Tutoring Center | Drupal, Docker, SQL, Git, SEO

Aug 2023 – Nov 2023

- Designed, developed, and deployed production website serving 100+ students with free tutoring services within 6-month launch period, demonstrating scalable web architecture.
- Configured Drupal CMS to launch a scalable tutoring platform and used OrbStack for Docker-based testing environment.
- Increased organic website traffic by 40% through comprehensive SEO optimization strategies, including XML sitemap submission to Google Search Console and meta tag optimization.
- Implemented Git version control workflows and utilized MySQL queries to efficiently manage user registration data.

Travel Webpage | HTML, CSS, JavaScript, jQuery, OrbStack, Git

Mar 2023 – May 2023

- Developed a responsive and visually engaging webpage using Scrollify for smooth scrolling, WOW.js for dynamic animations, and flexbox for adaptive layouts.
- Fetched user's current time data to develop a dynamic, real-time clock feature using JavaScript and jQuery.

Technical Skills

Languages: Python, Java, Swift, JavaScript, SQL, HTML, CSS

Frameworks/Libraries: SwiftUI, Firebase, Supabase, MapKit, HealthKit, Core Location, Bootstrap, jQuery, Drupal, NumPy, BeautifulSoup

Developer Tools: Git, Docker, MySQL, PostgreSQL, VS Code, Xcode, Supabase CLI

Cloud/Backend: Supabase (Auth, Database, Real-time), Apple Developer Services, RESTful APIs