

Yuhang (Olríc) Zeng

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EDUCATION

Cornell University

Ithaca, NY

Bachelor of Science in Computer Science

Expected Graduation: 2028

- GPA: 4.00/4.00
- Relevant Coursework: Data Structures and Object-Oriented Programming, Mathematical Foundations of Computing, Functional Programming, Intro to Backend Development, Linear Algebra

WORK EXPERIENCE

Hack4Impact Cornell

Ithaca, NY

Developer

Nov. 2025 – Present

- Developed **IMA (Internal Member Archive)**, a full-stack alumni database for Hack4Impact that serves as the networking hub for the organization's 100+ members across graduating classes
- Implemented secure password-based authentication with **bcrypt** and **Zod schema validation**, built login/logout API routes with Next.js, TypeScript, and Supabase, and tested the implementation with **Vitest**

Sunlight City Research Group

Ithaca, NY

Student Researcher

Jan. 2026 – Present

- Engineered a real-time weather data pipeline using Next.js proxy routes to surface live metrics for five cities, improving data visualization for urban modeling
- Developed a sun/shade routing engine for walking and cycling modes, refactoring 800+ lines of React-Leaflet code to resolve marker-clustering bugs, cut map re-render time by 30%, and improve UI scaling across viewports

Coding Minds

Irvine, CA

Software Engineering Intern

Jun. 2024 – Jul. 2024

- Built an Android nutrition-tracking demo app from scratch with **Flutter**, **Firebase**, and **TensorFlow Lite** to deliver personalized dietary insights
- Designed and deployed a **RESTful API** with **Python** and **Flask** to serve as the app's data-processing backend
- Tuned model parameters to improve prediction accuracy from 40% to 66% using a custom dataset of 101,000+ food images

PROJECTS

Luminary - Study Tracker App | *Flask, SQLAlchemy, Docker, GCP*

2025

- Built a full-stack study tracker with a 25+ endpoint REST API backend, automatic minute synchronization, and star-based progress tracking
- Designed a five-table schema, containerized the app with Docker, and deployed it on Google Cloud Platform
- Shipped a complete API specification and won Best Overall App at the 2025 AppDev Hack Challenge

Boroughs - NYC Housing Compatibility Finder | *Flask, React, scikit-learn, Tailwind*

2025

- Built a full-stack web application that recommends ideal NYC neighborhoods by combining ML-based housing price predictions with lifestyle compatibility scoring
- Integrated an advanced **scikit-learn** model trained on a 4K+ row dataset to forecast current and future NYC housing prices
- Won the Live Right Award at the Cornell Claude Hackathon with 100+ participants

NoteForm - Piano Posture Analysis App | *iOS, Flask, MediaPipe, Firebase*

2024

- Developed an iOS application using **MediaPipe hand-landmark detection** to process 1000+ posture readings and analyze piano hand posture with real-time feedback
- Integrated a **Firebase** database for progress tracking, enabling users to monitor improvement over time through comprehensive history logging
- Placed first at the IgniteCS Programming Expo 2024 in the Software Applications and Systems category

TECHNICAL SKILLS

Languages: Python, Java, OCaml, HTML, Dart, SQL, PowerShell

Frameworks: Flutter, Firebase, MediaPipe, OpenAI API, Flask, Supabase

Concepts: Full-Stack Development, API Design, Authentication, Containerization, Cross-Platform Apps