

Yuchung Wu (Troy)

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EDUCATION

Cornell University - Master of Engineering in Computer Science

Ithaca, NY | Expected December 2026

Loyola Marymount University - B.S. Computer Science

Los Angeles, CA | 2021-2025

Minor in Statistics & Data Science | Dean's List: 3 semesters (Fall 2022, Spring 2024, Fall 2024)

SKILLS

Languages: Python, Java, C, TypeScript, JavaScript, SQL, Swift

Backend: FastAPI, Django REST Framework, Node.js, Express, REST API design, Prisma ORM

Data & Geospatial: PostgreSQL, PostGIS, Azure SQL, geospatial data pipelines, ETL, API caching

Optimization & Frontend: Linear programming, Gurobi | React, React Native (Expo), SwiftUI, Leaflet.js

RELEVANT EXPERIENCE

Mobile Engineer Intern, Splitz

Remote | Sep – Dec 2025

Fintech startup building underwriting and risk-scoring infrastructure for creator contracts

- Built the underwriting module's React Native (Expo) UI from scratch: contract upload, review, deal entry
- Built a PDF/DOCX/image ingestion flow with client-side compression, rendering structured API data

Backend Software Engineer Intern, GBCS SkyIT (Ranked 2nd out of 30 interns)

Remote | May – Aug 2025

Voop, an internal RFP management platform, in a 30-intern program with weekly QA and leadership reviews

- Built a PDF export pipeline rendering database HTML sections via Puppeteer and merging them with pdf-lib
- Implemented CRUD and CSV-export REST APIs with Node.js, Express, and Prisma ORM on Azure SQL
- Fixed a broken version-restore feature by tracing version-history lookups and Prisma update logic

PROJECTS

Urban Digital Twin: NYC Waste Containerization

Cornell M.Eng Project | Sep 2026 – Present

5-person team in Cornell's Dynamic Cities Studio building a decision-support tool for NYC's Empire Bins rollout

- Designing the PostGIS pipeline integrating NYC street, building-lot, and 311 data behind FastAPI
- Planning an interpretable LightGBM + SHAP model showing policymakers what drives risk at each location

OpenET Agricultural Water Use Analysis Platform

Cornell M.Eng Research Project | May 2026 – Present

With Cornell's School of Integrative Plant Science, with NASA-funded research support

- Built a FastAPI + PostgreSQL/PostGIS platform with a Leaflet.js map on the OpenET satellite API
- Built field-boundary sampling and a PostGIS cache that cuts calls to the rate-limited API
- Co-presented live to New York farmers at Cornell CALS' 2026 Aurora Farm Field Day with Prof. Yun Yang

Electric Bus Fleet Charging Scheduler

Cornell M.Eng Research Project | Jan – May 2026

8-person team building a PostgreSQL, Django REST, Python/Gurobi, and React platform to minimize charging cost

- Built a Django REST endpoint bulk-ingesting GTFS charging data into PostgreSQL for the optimizer
- Merged GTFS datasets into one solver run via key prefixing and atomic transactions
- Added time-slot sizing and minimum charging-window constraints to the team's Gurobi linear program

ADDITIONAL

Languages: Mandarin Chinese (fluent), English (fluent)

Interests: Cornell Rugby; Taiwan Celts GAA (won a championship final at the 2025 Asian Gaelic Games in Bangkok); strength training; traveling and cultural exchange; music tech (built an LMU platform helping underground artists promote their music, sell merch, and collect fan donations)