

William Zhang

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EDUCATION

Cornell University

Ithaca, New York

Bachelor of Arts, Computer Science & Economics; Data Science & Business Minor (GPA: 3.8 / 4.0)

Expected May 2025

Relevant Coursework: Algorithms, Machine Learning, Object-Oriented Programming, Discrete Structures, Computer Systems, Functional Programming, Computer Vision, Operating Systems, Databases, Game Theory, Urban Economics

TECHNICAL SKILLS

Programming Languages: C/C++, Java, Javascript/Typescript, OCaml, Python, R, SQL, Swift, HTML/CSS

Technologies: Adobe Suite, Azure, Digital Ocean, Express, Figma, Firebase, Git, GitHub Workflows, Heroku, HTTP Protocols, Insomnia, Microsoft Office, MongoDB, NPM, NextJS, Node, Postgres, Pandas, Postman, ReactJS, RESTful APIs, Tableau, Vercel, Yarn

WORK EXPERIENCE

Design Tech Initiative

Ithaca, NY

Technical Product Manager

October 2021 - December 2023

- Spearheaded a cross-functional team of designers, developers, and business analysts in the successful implementation of a university-wide course review web application. The application is actively used by 2,300+ students monthly, contributing to a 41% increase in web traffic and a 13% rise in new reviews.
- Designed and developed a k-means clustering algorithm to provide course recommendations from the course roster API of 100k+ courses, leveraging factors such as course description, review content, user history, and other relevant factors. Implemented a script to automate the loading of top recommendations in the database for regular semester updates.
- Engineered a solution to execute seamless migration to Microsoft authorization for Cornell administration, integrating Azure identity management. Developed an automated emailing feature via Graph API, resulting in an impressive 86% reduction in time spent on group creation and management for a student user base exceeding 1,000.

Yonsei University

Seoul, South Korea

Student Research Assistant

June 2023 - August 2023

- Conducted in-depth research on Fortune 500 companies under the guidance of Professor Cho, specializing in analyzing financial reports, prices, market trends, and public sentiment values.
- Applied NLP Algorithms to calculate Vader polarity scores for companies, extracting valuable insights from scraping articles and comparing them to market trends using Finnhub API.
- Proficiently navigated EDGAR, FRED, and other SEC public databases, presenting comprehensive financial reports through SQL queries, R regressions, Excel pivot tables, and Tableau for impactful data visualization.

Pupil

Boston, MA

Software Engineer Intern

May 2022 - October 2022

- Enhanced developer productivity by revamping the legacy codebase with a modular file structure, standardized backend code, and customer server scripts.
- Integrated secure encrypted user authentication with NextAuth, improving the new user experience (NUX). Developed user profile pages and core user-matching capabilities.

ACTIVITIES AND RELEVANT PROJECTS

Association of Computer Science Undergraduates

Ithaca, NY

President

September 2021 - Present

- Led communication and allocated budgets of \$10,000 between 6 different sub-teams with over 40 officers to facilitate academic, social, and professional programming for over 500 general body members and the greater Cornell community
- Proactively partnered with corporations to secure sponsorships and academic personnel to organize and execute research events, faculty luncheons, informational sessions, workshops, hackathons, socials, and other initiatives.

China Delight

Bel Air, MD

Software Engineer

March 2020 - June 2021

- Engineered and launched a responsive online ordering platform on Digital Ocean built on React and Express with PayPal checkout to boost online traffic, resulting in 13,000+ orders and \$312,000+ in sales after launch.
- Conducted data analysis on MongoDB to identify trends in popular items, peak seasons, and customer experience.