

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

Technologies: React, MongoDB, Node/Express, Pandas, Azure, Digital Ocean, Figma, Firebase, Git, GitHub, Heroku, HTTP Protocols, Endpoint Testing, Microsoft Office, NPM, NextJS, Postgres, Postman, RESTful APIs, Tableau, Vercel, Yarn, Adobe Photoshop & Premiere Pro

WORK EXPERIENCE

Millennium Management

New York City, NY

Software Engineer Intern

January 2024 - Present

- Developed a value-at-risk (VaR) model that predicts financial losses in stocks.
- Built a tool to highlight and extract key info and KPIs from financial documents.

Design Tech Initiative

Ithaca, NY

Technical Product Manager, Software Developer

October 2021 - December 2023

- Spearheaded a cross-functional team to successfully implement a university-wide review application actively used by 2300+ monthly, contributing to a 41% increase in web traffic and a 13% rise in new reviews
- Designed and developed a k-means clustering machine learning algorithm to provide users with item recommendations from an API of 100k+ items and wrote scripts to automate loading top recommendations to MongoDB.
- Migrated to Microsoft Azure and Azure Identity Management to set up automated communication pipelines via Microsoft Graph API to reduce redundant administrative duties by 86% for over 1600 users.

Yonsei University

Seoul, South Korea

Student Research Assistant

June 2023 - August 2023

- Applied NLP Algorithms to calculate Vader polarity scores for Fortune 500 companies, extracting valuable insights from scraping articles and comparing them to market trends using Finnhub API.
- 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 Next, 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 - December 2023

- Led communication and allocated budgets of \$10000 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

Baltimore, 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 using MongoDB to identify trends in popular items, peak seasons, and customer experience.