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)   *May 2025*
Relevant Coursework: Algorithms, Machine Learning, Artificial Intelligence, Operating Systems, Databases, Object Oriented Programming, Discrete Structures, Computer Systems, Functional Programming, Computer Vision, Game Theory

TECHNICAL SKILLS

Programming Languages: Python, Java, Javascript/Typescript, OCaml, R, SQL, Swift, HTML/CSS, C++
Technologies: React, Node/Express, MongoDB, AWS, Firebase, Pandas, Azure, Digital Ocean, Figma, Git/GitHub, Heroku, HTTP Protocols, Endpoint Testing, NPM, NextJS, Postgres, Postman, RESTful APIs, Tableau, Vercel, Yarn, R Studio

RELEVANT EXPERIENCE

Millennium Management   **New York City, NY**
Software Engineer Intern   *January 2024 - Present*
- Built an interface to allow hedge fund analysts to view Value at Risk (VaR) values based on filtered and grouped positions, desks, pods, and asset classes to quickly analyze and measure risk on long, short, and neutral positions.
- Optimized infrastructure with Apache Pinot to support complex queries on 10 years of historical PnL for 200,000 tradable securities (stocks, bonds, futures) with 1M+ positions to allow over 200 analysts to query under 1 second at max load.

Cornell DTI   **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 2,300+ monthly, contributing to a 41% increase in web traffic and a 13% rise in new reviews.
- 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 1,600 users.
- Generated personalized recommendations for users based on descriptions via clustering and natural language processing.
- Developed concise and informative "Others Say" snapshot summary with OpenAI's API to analyze past reviews.

Association of Computer Science Undergraduates   **Ithaca, NY**
President, Ex-Graphics Lead   *September 2022 - December 2023*
- 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.

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 on Postgres, regressions on R Studio, Excel/JMP Pro 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 end-to-end RESTful API endpoints and frontends for user profile pages and core user-matching capabilities.

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's checkout API 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.