William Zhang

wz282@cornell.edu | +1 (667) 228-3151 | linkedin.com/in/notwz | New York

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: AWS, Presto, Cloud, React, Node/Express, MongoDB, Firebase, Pandas, Azure, Digital Ocean, Figma, Git/GitHub, Heroku, HTTP Protocols, NPM, NextJS, Postgres, Postman, RESTful APIs, Tableau, Vercel, Yarn, R Studio

WORK EXPERIENCE

Amazon Web Services   **Washington, DC**
Software Engineer Intern   *May 2024 - Present*
- Designed a Query Bridge for AWS CloudTrail Lake to enable over 53,000 customers to federate data from data stores and other analytical tools, allowing them to have a straightforward audit, security, and operational experience from one console.

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

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 2,300+ 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 100,000+ 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 1,600 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 on Postgres, regressions on R Studio, Excel/JMP Pro pivot tables, and Tableau for impactful data visualization.

Association of Computer Science Undergraduates   **Ithaca, NY**
President   *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.

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.