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, Database Systems, Object Oriented Programming, Discrete Structures, Computer Systems, Functional Programming, Computer Vision, Natural Language Processing, Game Theory, Capital Valuation Investments, Computer Networks

TECHNICAL SKILLS

Programming Languages: Java, Javascript/Typescript, Python, OCaml, R, SQL, HTML/CSS, C++
Frameworks & Libraries: React, Node.js, Express, NextJS, Pandas
Cloud & Infrastructure: AWS (CloudTrail, Glue, S3, Lake Formation, EC2), Azure, Digital Ocean, Heroku, Vercel
Databases: MongoDB, PostgreSQL, Presto, Firebase, MySQL
Development Tools: Git/GitHub, Unit Tests, HTTP Protocols, RESTful APIs, Tableau, Figma

PROFESSIONAL EXPERIENCE

Amazon Web Services (AWS)   **Washington, DC**
Software Engineer   *May 2025 - Present*
- Architected and launched a distributed export pipeline supporting 10+ years of AWS API event history in Amazon CloudWatch Lake, enabling large-scale observability, security forensics, and compliance auditing for millions of customer accounts.
- Designed scalable backend services to process and export high-volume event data with fault tolerance and graceful degradation under peak load.
- Improved service reliability by leading game day simulations, implementing rate limiting and load balancing strategies, and hardening failure recovery mechanisms to strengthen system resiliency and operational readiness.

Amazon Web Services (AWS)   **Washington, DC**
Software Engineer Intern   *May 2024 - August 2024*
- Designed and implemented Query Bridge for AWS CloudTrail Lake, enabling 53,000+ organizations to federate and query audit data across services for unified security and compliance analysis.
- Engineered distributed query infrastructure integrating EMR (Presto), AWS Glue, S3, and Lake Formation to support secure, cross-account data federation at scale.
- Extended query translation layer to support cross-service queries through Presto and Hive engines, improving performance and reducing friction for multi-source audit analytics.

Millennium Management   **New York, NY**
Software Engineer Intern   *January 2024 - May 2024*
- Built a high-performance analytics dashboard for Value at Risk (VaR) across 200,000+ securities, enabling hedge fund analysts to perform real-time risk analysis.
- Optimized backend APIs to process and deliver 10 years of historical PnL data with sub-second latency during peak trading hours, improving throughput and eliminating query bottlenecks.

Design Tech Initiative   **Ithaca, NY**
Software Developer   *October 2021 - December 2023*
- Led a 6-engineer team to build and scale a university course review platform serving 2,300+ monthly active users, driving 41% traffic growth through feature expansion and performance improvements.
- Designed and deployed a collaborative filtering recommendation engine and integrated the OpenAI GPT API for automated review summarization, increasing user engagement by 19% and improving content readability.

Yonsei University   **Seoul, South Korea**
Student Research Assistant - NLP/Financial Technology   *June 2023 - August 2023*
- Developed a Python-based NLP pipeline using VADER sentiment analysis to score Fortune 500 company news articles.
- Built data processing workflows to correlate sentiment trends with financial market data for quantitative analysis.

LEADERSHIP EXPERIENCE

Association of Computer Science Undergraduates   **Ithaca, NY**
President   *September 2022 - May 2024*
- Directed 40+ officers and managed a $10,000 budget to scale academic and technical programming for 700+ members, securing corporate sponsorships and leading large-scale research events, workshops, and hackathons.