

XIAODAN (NOVIA) WU

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EDUCATION

Cornell University, New York, NY

Aug 2022 - Expected **May 2024**

Dual Master of Science in Applied Information Science and Information Systems | with Merit Scholarship

Brandeis University, Waltham, MA

Aug 2018 - May 2022

Bachelor of Science in Neuroscience; Bachelor of Arts in Computer Science | Dean's List, Magna Cum Laude

EXPERIENCE

HubSpot, Software Engineering Intern (Back-end), Cambridge, MA (Java, SQL)

Jun 2023 - Aug 2023

- Error Reduction: Implemented robust error-handling logic in a Kafka worker processing significant daily traffic, reducing daily API errors from over 4000 to zero. Monitored app log and acceptance tests and resolved abnormalities.
- Data Migration Success: Spearheaded a critical, cross-team data migration project, overhauling SQL schema, isolating the application and persistence layers using DAO pattern, backfilling existing data, and implementing new support API endpoints. Achieved seamless migration of 1480 data rows with zero downtime.
- Customer Research Initiative: Led customer research for a cross-team product enhancement project, identified 7 potential beta participants ready for outreach. Selected to present at company-wide Science Fair for excellent execution and collaboration.

HubSpot, Software Engineering Intern (Front-end), Cambridge, MA (React, TypeScript)

Jun 2022 - Aug 2022

- Feature Development: Engineered 5 critical frontend features for the sales software, impacting over 150,000 users. Conducted unit testing of Redux logic using Jasmine and seamlessly deployed to production.
- Performance Improvement: Implemented a complex Redux Thunk logic that checks for specific conditions before making an API call, reducing the number of unwanted API requests, and improving the load time of the UI component.
- Leading System Design: Architected the frontend implementation of a rule-based recommendation system built on new backend endpoints, impacting the workflows of over 1000 daily users. Documented the groundwork for this key Q3 product objective.

Arista Networks, Software Engineering Intern (Full-stack), Nashua, NH (React, Python)

Jun 2021 - Aug 2021

- Enhancing Efficiency: Developed 3 responsive frontend components for a crucial internal application relied upon daily by over 1000 engineers. Set up CI/CD using Kubernetes. Received widespread praise for improving workflow efficiency.
- Designing Personalization System: Designed and created a frontend system with React, adjusted the Python backend to accommodate data request. Enabled customization of web page through client-side storage.
- Leadership in Collaboration: Orchestrated system design review meetings with 10+ colleagues, presented final products to over 50 attendees, showcasing exceptional teamwork and communication skills.

Elphi (Startup), Software Engineering Intern (Front-end), Cambridge, MA (React)

Dec 2020 - Jan 2021

- Agile Development: Iterated on the front-end design for a pivotal feature in a FinTech startup's loan origination system web app. Engineered a compelling MVP using React within a month, generating investor interests through effective demos.

PROJECTS

NYC Bar Review (JavaScript, React, HTML, CSS, Firebase)

Jan 2023 - May 2023

- Developed a web application with real-time data handling, storage, and retrieval, as well as responsive and user-friendly UI.

Blockchain & Smart Contract (Solidity, Python)

Jan 2023 - May 2023

- Developed a Solidity token contract and completed real-time transactions on the Ethereum network.
- Simulated Proof of Work consensus and P2P broadcasting, created Bitcoin-inspired cryptocurrency. Engineered a digital signature scheme that verifies the transactions.

ML Dynamic Pricing Competition (Python, numpy, pandas, scikit learn)

Aug 2022 - Dec 2022

- Optimized a logistic regression model to complete demand estimation and revenue maximization, achieved ~50% increase in average revenue per game over three simulated market competition.

NLP-Based Search Engine (Python, Flask, Elasticsearch)

Jan 2021 - May 2021

- Engineered a full-stack search engine with a novel set difference algorithm that uses BERT and other NLP tools.
- Improved model accuracy significantly from a baseline of ~70% to ~97%.

LEADERSHIP

Cornell University, Teaching Assistant, New York, NY

Jan 2023 - Present

- Assisted graduate level courses, streamlined the grading and class engagement process, reduced the time spent on grading by 40%.

Brandeis University, Teaching Assistant, Waltham, MA

Aug 2020 - May 2022

- TA for 500+ students in intro CS courses. Led weekly recitations, held offices hours, debugged student code, and graded exams.

TECHNICAL SKILLS

Coding Language/Framework: Java, Python, SQL, JavaScript, React, TypeScript, HTML, CSS, Solidity

Other: Git, Unix, Flask, Guice, Mockito, Apache Kafka, Maven, Vitess, OpenGrok, Grafana, Singularity, Jasmine, Redux