

Alan Xue

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EDUCATION

Northwestern University

Bachelor of Science in Mechanical Engineering

Evanston, IL

Sep. 2017 – Jun. 2021

Northwestern University

Master of Science in Computer Science; GPA: 3.93

Evanston, IL

Nov. 2020 – Dec. 2022

EXPERIENCE

Amazon

Software Development Engineer Intern

Seattle, WA

Jun 2022 - Sep 2022

- Part of the Frameworks, Tools, and Libraries (FTL) team of Amazon Fresh, building services responsible for tracking metrics, and alarms to prevent downtime for customers
- Developed a full stack micro service application to display the current on-call employee for 100+ product feature areas, reducing the average issue mitigation time by 20%
- Designed, implemented, and launched a cloud application that stored our team product's sensitive data into DynamoDB creating new metrics for future customer impact
- Took on a DevOps role being responsible for monitoring CI/CD pipelines and deployments to beta and production, resolving any issues during build failures
- Achieved 100% line and branch coverage through units and integration tests in Jest

Relayr

Full Stack Developer Intern

Chicago, IL

Jun 2021 - Sep 2021

- Co-led the implementation of a reports portal used by clients to create and download custom reports using React/Redux
- Tasked with the initial implementation of an analytics portal used by clients to track and review data
- Worked collaboratively with development, QA, and the business team
 - * Improved UI and integrated new functionality with a client web page redesign
 - * Addressed issues identified by QA
 - * Responsible for 2 software releases
- Worked closely with the UI libraries team to identify and troubleshoot issues contributing to 3 version updates
- Managed and solved over 50+ tickets on Jira for a smooth release while adhering to Agile practices
- Participated in the interview process by interviewing 4 front-end candidates and provided responses for their recruitment

Institute of Electrical and Electronics Engineers

Machine Learning Team Member

Evanston, IL

Dec 2020 - Jun 2021

- Implemented an active learning algorithm that outputs optimal experimental parameters for material scientists at Argonne National Lab
- Developed a back-end server using Flask that receives data and runs a Machine Learning algorithm to output a file for scientists to download
- Forked and contributed to Polybot, an open-source library on Github for controlling robotic synthesis of materials
- Presented the project to the Institute of Electrical and Electronics Engineer showcase and won 2nd place

PROJECTS

- **Discord Bot:** Implemented and hosted a Discord bot on a local computer to handle various requests from users using JavaScript and Node.js as the back end
- **Personal Website:** Developed a personal portfolio using JavaScript, HTML/CSS and deployed it on GitHub Pages

TECHNICAL SKILLS

Languages: TypeScript, Java, Python, JavaScript, HTML, CSS, SQL

Certifications: Microsoft AZ-900

Technologies: AWS, Node.js, Express, React, Redux, Jest, Mockito, Spring Boot, MySQL