

Alan Xue
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EDUCATION

Northwestern University

Bachelor of Science in Mechanical Engineering; GPA: 3.67

Evanston, IL

Sep. 2017 – Jun. 2021

Northwestern University

Master of Science in Computer Science; GPA: 3.67

Evanston, IL

Nov. 2020 – Expected

EXPERIENCE

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
- 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

Functional Optical Imaging Laboratory

Computer Research Aide

Evanston, IL

Jan 2021 - Jun 2021

- Compiled code on an Arduino using peripherals including SPI, and DACs to output complex waveforms
- Wrote back-end Python code to communicate with the Arduino and a front-end interface for users to interact with

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
- **GoLocal:** Designed a prototype web application that aims to share and spread information about local communities to travelers and tourists using HTML, CSS, JavaScript
- **MobileNet/VGG16:** Fine-Tuned the MobileNet model to perform classification on a custom image data set of sign language digits

PROGRAMMING SKILLS

Languages: TypeScript, Python, JavaScript, Sass, HTML, CSS, C++

Certifications: Microsoft AZ-900

Technologies: Azure, React, Redux, Jira, Postman

Interests: Urban or Nature Photography