## Catherine Wu

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## Summary

Fast-learning, creative-minded third-year software engineering student with 3+ years of development experience in various technology stacks. Has a keen interest in large-scale distributed systems.

## Education

University of Waterloo | Bachelor of Software Engineering

**Anticipated Graduation: April** 

2025

Technical Skills

Languages C, C++, Java, JavaScript/TypeScript, Go, Kotlin, Python, Assembly

Frameworks and Tools Bash, Git, MongoDB, SQL, Node.js, React.js, Vue.js, Express.js, Django, AWS

Work Experience

Microsoft May 2023 - Present

Software Engineer Intern | Windows + Devices

Redmond, Washington, US

Prototyped new features with modern C++ and XAML for the Windows shell.

Morgan Stanley September 2022 - December 2022

Software Engineer Intern | Wealth Management Technology

Calgary, Alberta, Canada

- Worked with a large-scale equity management software Java EE and Oracle SQL Database.
- Refactored legacy website front end implemented with Google Web Toolkit and Java Spring frameworks into React single-page applications to improve code readability and reduce coupling.
- Conducted integration tests in Java and utilized agile scrum methods to deliver high-quality code commits.

eBay December 2021 – March 2022

Software Engineer Intern | Engineering Ecosystem & Experience

Shanghai, China

- Implemented a directed acyclic graph visualization library with **TypeScript**. The library has been used in **3 internal projects** and **has shortened more than 70%** of the code for rendering flow charts and tree-structured graphs.
- Led the design of a new CD pipeline editor frontend supporting advanced features such as adding parallel tasks and node drag and drop with **React.js** and **Redux**.

Hokdo (MiraclePlus F21) October 2021 – November 2021

Software Engineer Intern

Remote

- Coded two web pages in a customer relationship management MVP showcased to 1000+ potential investors on MiraclePlus Demo Day with Vue.js (frontend) and Express.js (RESTful API server).
- Built and deployed a **responsive server-side rendering** official website displaying product highlights and providing a chat widget using **React.js**, **Amazon EC2**, and **Nginx**.

Xiaomi Technology May 2021 – August 2021

Software Engineer Intern | MIUI Mobile Operating System

Nanjing, Jiangsu, China

- Developed **3 new features** (a new page for front-camera-related settings, toggle logic improvement, and refresh rate settings improvement), which have been rolled out to approximately **80 million users globally**.
- Debugged and fixed 50+ issues regarding searching, accessibility support, Android Monkey crashes, layouts, and Application Not Responding errors in Xiaomi mobile system apps.

**Projects** 

## KWCSSA Voting System | A Fullstack Web App &

October 2022

- Architected a MERN-stack system that utilized Express.js to create a RESTful API server and supported 200+ audience voting for their favourite performances in a talent show hosted by KWCSSA.
- Implemented the core feature of displaying real-time voting results with Socket.IO.

Monkey Assistant | Raspberry Pi Photography and Social Media Assistant &

October 2020 - November 2020

• Built a graphical user interface for taking selfies, applying filters and uploading pictures with Python **PyGame** and **PiCamera** libraries.