

# Ruoxi (Catherine) Wu

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## SUMMARY

Quick-learning and creative-minded third-year software engineering student with 2+ years of full stack development experience in various technology stacks. Has a keen interest in cloud computing, especially cloud-based enterprise software.

## TECHNICAL SKILLS

**LANGUAGES** C, C++, Java, JavaScript/TypeScript, Python  
**FRAMEWORKS & TOOLS** Bash, Git, MongoDB, SQL, Node.js, React.js, Vue.js, Express.js, Django, AWS (RDS, EC2)

## EDUCATION

**UNIVERSITY OF WATERLOO** **Anticipated Graduation: May 2025**  
Bachelor of Software Engineering Waterloo, Ontario, Canada

- Cumulative GPA: 86/100, President's Scholarship of Distinction Recipient
- Relevant Coursework:** Programming Principles (C), Data Abstraction and Implementation (C++), Database Management, Foundations of Sequential Programs (Compilers), Data Structures, Software Engineering Principles


## WORK EXPERIENCES

**MORGAN STANLEY** **September 2022 - Present**  
Fullstack Engineer Intern | Wealth Management Technology Team Calgary, Alberta, Canada

- Works with a large-scale distributed equity management software using **Java EE** and **Oracle SQL Database**.
- Conducts **integration tests in Java** and utilizes **scrum agile methods** to deliver high-quality code commits.
- Refactors 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**.

**EBAY INC.** **December 2021 – March 2022**  
Frontend Engineer Intern | Enterprise Ecosystem & Experience Team Pudong, Shanghai, China

- Implemented a DAG visualization library with TypeScript and React. The library has been used and deployed in **3 internal projects** and **has shortened more than 70%** of the code for rendering flow charts.
- Maintained **90%+ code coverage** in unit testings using the **Jest** testing framework for the above library.
- 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** and **Redux**.


**HOKDO (MIRACLEPLUS F21)**  **October 2021 – November 2021**  
Fullstack Engineer Intern Remote (Singapore, Singapore)

- Individually built and deployed a **server-side rendering** official website displaying product highlights and providing a chat widget for potential investors using **Node.js**, **Next.js**, **Amazon EC2**, and **Nginx**.
- Coded the front end of a customer relationship management website using **Vue.js** and **Element Plus** component library.


**XIAOMI** **May 2021 – August 2021**  
Android Engineer Intern | MIUI Mobile Operating System Team Nanjing, Jiangsu, China

- Adapted **page layouts** and **activity life cycles** of the "Settings" app for Xiaomi tablet products.
- 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 40+ issues regarding searching, accessibility support, Android Monkey crashes, and Application Not Responding errors in Xiaomi mobile system apps.

## SELECTED PROJECTS

**LOL CHAT** | A Lite Chatting Web App  **May 2022 - Present**

- Planned a lite chatting app utilizing the **MERN** stack that utilizes **Express.js** to create a **RESTful API server** and **Amazon RDS (MySQL)** to store the message and account data.
- Implemented the core feature of sending and receiving messages 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.