

JERRY JU

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TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, C/C++, Java, HTML, CSS
Tools/Frameworks: Git, MySQL, MongoDB, Node.js, React, Bash, Jenkins, Jira, AWS

EXPERIENCE

Q4 Inc. May – Aug. 2022
Full-Stack Developer Intern Toronto, ON

- Developed custom React components and hooks in TypeScript for a SaaS conference platform used by millions of users
- Integrated Twilio APIs to implement real-time chat functionality within the platforms
- Helped introduce an greater testing-focused strategy and implemented an automated Cypress testing reporter with GitHub and TestRail integration, reducing production bugs, testing time, and streamlining QA processes
- Designed RESTful APIs for event data management using Node.js and integrated MongoDB, enabling scalable storage and real-time updates

Ford Motor Company May – Aug. 2021
Software Developer Intern Ottawa, ON (remote)

- Enhanced Ford's token manager system using C/C++ in a Linux environment to ensure secure access for net-worked vehicles, improving token security logging and debugging
- Developed cloud-connected, in-vehicle modules for Ford, collaborating with the testing team to ensure reliability on CAN/Ethernet networks using Jenkins
- Wrote unit and integration tasks in GTest to ensure proper functioning of features

University of Hawaii Sep. – Dec. 2020
Undergraduate Research Assistant/Software Developer Honolulu, HI

- Developed features to analyze droplets in C++, using OpenGL and computer vision techniques to interpret various drop shapes
- Crafted comprehensive scientific and software documentation tailored for scientists, researchers, and fellow developers

PROJECTS

Gymstagram

- Collaboratively developed a social media style gym app in Java using Android Studio featuring user authentication, posts, interactions, images, and workout history
- Designed a Spring Boot layered architecture back-end, with a repository pattern and CRUD endpoints using a MongoDB NoSQL database for structured and efficient data flow and scalability
- Implemented RESTful APIs with CRUD operations with Retrofit for secure data transfer between the front and back-end

Toronto Subway Delay Algorithm

- Developed various ML models to predict delay time in Toronto subway lines in Python with sci-kit and pandas to clean, filter, and analyze the dataset

EDUCATION

University of Waterloo 2018 – 2023
BASc. in Honours Mechatronics Engineering (*with Computing Option*)
Graduated with Distinction.