

JERRY JU

☎ (780) 232-5775 | ✉ jerry.ju@uwaterloo.ca | 🌐 jerryjtj.github.io

TECHNICAL SKILLS

Languages: C/C++, JavaScript/TypeScript, Python, 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 front-end React components and hooks in TypeScript for the Conference and Events Platform, used by millions of end-users to date
- Assisted in a "shift-left" transition in several teams, prioritising testing, leading to a > 50% decrease in production bugs
- Implemented an automated Cypress reporter with GitHub and TestRail integration, helping developers and QA better verify code
- Created reports for conferences and events, using MongoDB, Snowflake, and RESTful API calls to provide stakeholders with accurate information

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 networked vehicles
- Developed cloud-connected, in-vehicle modules for Ford, collaborating with the testing team to ensure reliability on CAN/Ethernet networks using Jenkins
- Improved token security logging and debugging UI for Ford's diagnostics systems, significantly enhancing development processes

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

- Contributed to the development of a simulation tool for axi-symmetric drop shape analysis (ASDA) in C/C++, enabling comprehensive interpretation of varied drop shapes
- Utilized OpenGL and computer vision techniques to analyze and 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 with user authentication, posts, interactions, images, and workout history
- Designed a backend using Spring Boot MVC framework, with a repository pattern and CRUD endpoints with a MongoDB database for structured and efficient data flow and scalability
- Implemented RESTful APIs 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 Sep. 2018 – Apr. 2023
BASc. in Honours Mechatronics Engineering (w/ Computing Option)
Graduated with Distinction.

OTHER

Hobbies/Interests: Film-making, football, cooking, travelling, astronomy, guitar