JULIA CHEN

Computer Science Student

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SKILLS

Languages:
JavaScript, TypeScript, Java, C, C++, HTML, CSS

Frameworks/Libraries:
React, Angular, Spring Boot, Node.js, Express.js, RxJs, Three.js, JQuery, Bootstrap

Tools:
Docker, Git, Github, Maven, MySQL, MongoDB, PCF, Postman, Jira

EDUCATION

University of Waterloo
Candidate for Bachelor of Computer Science
2020 - 2025
3.99/4 Cumulative GPA

AWARDS/DISTINCTIONS

CFM 1A Case Competition:
2nd place - Portal Proposal

Faculty of Mathematics Senate Scholarship:
Awarded to 2 students for academic success

CFM Outstanding Academic Achievement Award:
Awarded to select students for academic success

CERTIFICATIONS

Google Digital Garage: The Fundamentals of Digital Marketing

EXPERIENCE

Software Developer   **Sept 2022 - Dec 2022**
Mappedin

- Developed and designed 3D mapping tools API for indoor venues with **TypeScript** and **Three.js** as part of a major release of V5 Web and Mobile SDKs
- Fixed 10+ major bugs impacting camera controls and location labelling, improving product experience for over 60 clients across more than 150 venues
- Implemented label customization feature on web/mobile with **WebGL** allowing for label appearances to be dynamically customized without cluttering together
- Created feature for multiple real-time animated location dots with TweenJs and **Geolocation API,** allowing for asset-tracking and live location sharing use cases

Software Developer   **Jan 2022 - Apr 2022**
Royal Bank of Canada

- Built an event logging app with **Spring Boot** to transform security API data fields by consuming/producing to **Kafka** topics, improving logging efficiency by **92%**
- Implemented UI features and server side logic for client onboarding, permission management, and environment promotion for an OAuth IdP client management app with **Angular**, **Typescript**, and **Node.js**
- Utilized reactive programming with **RxJS** and **Express.js** to implement periodical health checks for a service monitoring app, allowing for remote start/stop capabilities for cloud deployments and downtime SMS notifications

Software Applications Developer   **May 2021 - Aug 2021**
Toyota Canada Inc.

- Implemented enrollment features for vehicle registration used by **286** dealerships with **Java Spring**, **MSSQL**, and **Maven** in an Agile SDLC environment
- Led a proof of concept to containerize web apps with **Docker** and to migrate them from IBM Websphere Liberty server to **Apache Tomcat**

PROJECTS

Watchr ⧉   **Aug 2021**

- Created a desktop app that schedules screen recordings for live events
- Implemented front-end with **React** and **Electron** to allow recording files to be saved in a local directory

Taskeeper ⧉   **Aug 2021**

- Built a web app for personal task management with an interactive calendar UI
- Created a **REST API** with CRUD operations using **Node**, **Express**, and **MongoDB**
- Designed front-end with **React** using **Passport.js** for user authentication

RNJogger ⧉   **Aug 2020**

- Android mobile app that generates a random route based on inputted distance
- Mapped and designed user interface including social system and a leaderboard
- Developed with **React Native** using Android Studio AVDs and NativeBase library