

MICHAEL RABBAI

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EXPERIENCE

Software Developer - Front-End

July 2024 – Present

Ross Video

- Implemented numerous pages for a web app with React, TypeScript, Tailwind CSS, Redux Sagas, and Protobuf - satisfied customer and management requests
- Designed and developed efficient, page-specific data solutions using Redux Sagas and Protobuf - enabled seamless message exchange with the backend to update and retrieve hardware information
- Built UIs based on UX mockups, working closely with the UX team - achieved accurate and up-to-date designs with a strong focus on detail and quality
- Demonstrated proficiency with internal component libraries by consistently leveraging their components, migrating all Button components to the newest version, and building custom component wrappers to enhance flexibility and logic
- Developed backend page handlers in C++ to accurately process data and ensure successful communication with hardware

Software Developer - Front-End

Jan 2022 – Dec 2023

Solace

- Designed and developed a custom configuration wizard with JavaScript, Aurelia, HTML, and SCSS - integrated and synchronized third-party security standards between hardware elements
- Architected and implemented a feature using JavaScript and Aurelia that integrated AWS S3's cloud storage into the existing system's workflow - fulfilled a client request
- Advocated and aided in the migration plan from Aurelia to React to increase the performance of the UI, facilitate proper UX, and update the codebase and technologies to industry standards
- Mentored interns by performing code reviews, clarifying features, and providing technical insight on how to write scalable code – ensured the implementation of high-quality code leading to high-quality features for clients

Software Developer Intern - Full Stack

Jan 2020 – Dec 2020

Ciena

- Implemented features for a scalable web application using TypeScript, Ember, HTML, SCSS, and Handlebars - displayed and monitored network information in a clear and concise manner
- Developed a custom analytics API that enabled the manipulation, monitoring, and retrieval of network and hardware data to populate a user interface (UI) tailored to client specifications using JavaScript, Ember, HTML, and SCSS
- Utilized the Chai and Mocha JavaScript libraries to follow test-driven-development (TDD) by adding unit, integration, and acceptance tests - ensured expected behaviour of features
- Developed a REST API using Python to monitor and display statistical network information
- Enhanced Python processing algorithms and technologies - improved data processing speed by 70%

Software Developer Intern - Back-End

May 2019 – Aug 2019

Communications Research Centre Canada

- Designed and implemented an API in Python to modify network simulation files - yielded an increase in processing throughput by 120%
- Developed an API in Python to automate the creation of network simulation files - increased creation results by 700%

TECHNICAL SKILLS

Libraries/Frameworks: React, React Native, Angular, Ember, Aurelia, NodeJS

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

Technologies: Redux, Tailwind CSS, SCSS, Protobuf, AWS, Microsoft Azure, Git, MongoDB, Firebase, Unix, Figma

EDUCATION

Carleton University

Ottawa, ON

Bachelor of Computer Science Honours CGPA: 4.0/4.0

Sept 2017 – Dec 2021

- Dean's List, A.D. Dunton Scholarship (2018 – 2021)

PROJECTS

Loan Logger - Honours Project

Sept 2021 – Dec 2021

- Designed and developed an iOS application using React Native, JavaScript, and Firebase to allow users to add, delete, and edit contacts and transactions
- Utilized the Redux library to seamlessly access and manage authentication, contacts, and transactions states throughout the application
- Implemented authentication and security using Firebase to allow users to create an account, login, and sign out

Ensemble - cuHacking

Feb 2019

- Designed and developed a web application using React, JavaScript, HTML, CSS, and the Spotify API to create playlists based on songs and playlists that users entered