

SRUJAN RAO

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EDUCATION

The University of British Columbia

Bachelor of Science, Computer Science

Vancouver, B.C.

Aug. 2019 – May 2024

- **Dean's Honour List** (3/4 Academic Years)
- **Relevant Coursework:** Data Structures and Algorithms, Software Design and Development, Machine Learning, Artificial Intelligence, Databases, Data Science, Application Development, Computer Hardware and OS

EXPERIENCE

Co-op Software Engineer in Test

May 2022 – Dec. 2022

LifeBooster

Vancouver, B.C.

- Spearheaded the development and maintenance of an end-to-end testing suite with Cypress.io and integration testing suite with Jest, promoting test driven development and reducing manual testing reliance.
- Created infrastructure to automate code testing in deployment pipelines, enhancing efficiency and reliability of the release process.
- Increased test coverage by over 15% through the expansion of the unit testing suite using the Jest library.
- Enhanced internal API documentation by utilizing the OpenAPI Specification, providing developers with dynamic and easily accessible information via an internal endpoint.

Co-op Software Developer

Jan. 2021 – Apr. 2021

XGen AI

Vancouver, BC

- Created a microservice hosted on AWS Elastic Containers to assess AI prediction model accuracy for client websites, aiding in continuous monitoring and optimization of our prediction engine.
- Developed a REST API for generating reports on prediction accuracy, enabling easy access to performance metrics and integration with Slack notifications.

PROJECTS

Personal Website | *JS, React, CSS, Framer Motion*

Feb. 2024

- Employed React and utilized the Framer Motion library to develop a responsive website tailored to showcase my professional background effectively.

HappyHaiku | *Python, Pandas, NLTK, Flask, Docker*

Feb. 2024

A bot that uses Natural Language Processing to generate haikus for positive comments

- Utilized Python's pandas and NLTK libraries to conduct sentiment analysis and syllable computation.
- Established a web server using Python Flask, facilitating seamless interaction for the bot with external systems
- Dockerized the bot to streamline deployment and ensure consistent performance across various environments

dogFish | *JS, React, Express, MongoDB, Mongoose, Google Maps API, SendGrid*

May 2023 – Aug. 2023

A multifaceted web app for connecting casual players, and finding and organizing local sports games

- Collaborated to create a client powered by React, Redux, and Material UI to provide a familiar, minimal, and intuitive user interface that supported matchmaking, user interaction through chat, and profile customization.
- Leveraged REST APIs and MongoDB databases to optimize data transfer and enhance system performance, interfacing with the React client.

Quarantoned | *Java, JavaFX, Android Studio, CSS, TensorFlow*

Jun. 2020

An Android application that checks form for strength training exercises

- Created a simple and intuitive front-end interface with JavaFX for the Android application
- Utilized TensorFlow Vision to conduct pose estimation, with logic in Java to constrain form for joints and provide feedback for strength training exercises.

TECHNICAL SKILLS

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

Frameworks: React, Node.js, Flask, Jest, Mocha, JUnit, Cypress, FastAPI, Springboot, Express

Developer Tools: Git, GitHub, Linux, Docker, Amazon Web Services, Microsoft Azure, Visual Studio Code, IntelliJ IDEA, OpenAPI/Swagger

Libraries: Chai, MongooseJS, Redux, Material-UI, scikit-learn