Ronney Lok (he/him)

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Technical Skills

- Languages: Python, C/C++, Java, HTML/CSS, Javascript, SQL, Dart, Matlab
- Frameworks: Flutter, ReactJS, ExpressJS,NodeJS Flask, AWS
- Tools & Databases: Pandas, Beautiful Soup, Selenium, Twilio, Bootstrap, Tailwind, ArcGIS, MongoDB, SQLite

Work Experience

Diastolic Robotics Inc. | *Python, Flask, Arduino, Bluetooth Low Energy, Flutter*   **Vancouver, BC**
Software Developer Intern   *Jan – Apr 2023*

- Developed a sleep apnea assessment iOS/Android app through the Flutter SDK with a reach of over 300 users.
- Converted a NMB drug administration app to a mobile version for anesthesiologists to use on the go, improving flexibility and efficiency in drug administration.
- Programmed communication between Arduino boards and smartphones via Bluetooth Low Energy for use in wearable medtech applications.
- Applied smoothing algorithms to clean and preprocess raw sensor data from medical devices resulting in a 10% reduction in noise and improved reading accuracy.
- Implemented the Runge Kutta algorithm to extract velocity in real-time from accelerometer sensors and applied the data strategically to medical device applications.
- Authored testing and analysis research reports involving 50+ test cases with compile-time tests ensuring comprehensive coverage .

Related Experience

Blueprint @ SFU | *ReactJS, NodeJS, Vercel*   **Burnaby, BC**
Software Developer   *Aug 2023 – Present*

- Worked closely in an agile cross functional team in designing tailored software solutions for NPO's with influence over thousands of clients.
- Interviewed industry professionals and stakeholders for understanding pain points and requirements gathering.
- Planning and developing React-based web application architectures to fit the needs and limitations of clients.

Selected Projects

[AWS Serverless Image Processor](#) | *Python, AWS, ReactJS, Chakra UI*   *Jul - Sep 2023*

- Developed an AWS serverless image-editing web application that allows users to alter images.
- Utilized AWS services including API Gateway, Lambda, S3, and Cloudfront for APIs + hosting.
- Created implementations such as inverting, rotating, brightness, filters, pixelation, and binarizing by manipulating RGB values with Numpy.

[Hospital Bot](#) | *Python, Flask, Twilio, Beautiful Soup, Selenium*   *May - Jun 2022*

- Created an SMS texting chat bot that responds with the closest available hospitals and wait times.
- Used Selenium and BeautifulSoup to extract the required information from the hospital wait time website.
- Combined Twilio with Flask, to handle backend communication with APIs and used Pandas to preprocess hospital data.

Education

Simon Fraser University   **Vancouver, BC**
Bachelor of Science, Major in Computing Science (Dean's Honour Roll)   *Sep 2020 - Present*

- Relevant Courses: Software Engineering, Computational Data-Science, Database Systems, Computer Systems, Systems Programming