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 Experiences

Software Developer Intern | *AngularJS, Python, Pandas, Agile, Networking, Jira, Linux* — **Vancouver, BC**
University of British Columbia (Network and Infrastructure Department) — *Jan 2024 – Present*

- Developed an internal networking Angular web application for network engineers to use in managing network data for 3 campuses, 2 hospitals, and over 100 facilities.
- Proposed and redesigned repository to a Python OOP data pipeline framework to enable scalability saving 15% of development time on feature extensions.
- Programmed database migration scripts with Pandas and Regex to handle complex network data and support company technical restructure.

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

- Developed a sleep apnea assessment iOS/Android app through the Flutter SDK with a reach of over 300 users.
- 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.
- Authored testing and analysis research reports involving 50+ test cases ensuring comprehensive coverage.

Related Experiences and Selected Projects

Software Developer | *ReactJS, NodeJS, Vercel, DevOps* — **Burnaby, BC**
SFU Blueprint — *Jul 2023 – Present*

- Collaborated in a cross-functional team to develop a volunteer management system for Our Community Bikes (NPO).
- Conducted interviews with industry professionals and stakeholders to identify pain points and gather requirements.
- Developed an organization website used for recruiting nonprofits and is viewed by 300+ students to join our mission.
- Mentored junior developers on software development, enhancing their contribution and speeding up projects by 20%.

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, 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*