



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*
University of British Columbia (Network and Infrastructure Department)

Vancouver, BC
Jan – Aug 2024

- 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 feature to follow a Python OOP data pipeline framework saving 15% of development time on feature extensions.
- Programmed database migration scripts to handle complex network data involving over 10000 data points.
- Implemented unit and integration tests ensuring 70%-80% branch coverage per each feature.

Software Developer Intern | *Python, Flask, Arduino, Bluetooth Low Energy, Flutter*
Diastolic Robotics Inc.

Vancouver, BC
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 wearable medtech.
- 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*
[SFU Blueprint](#)

Burnaby, BC
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 250+ students to join our mission.
- Mentored junior developers on software development, enhancing their contribution and speeding up projects by 20% to meet deadlines.

[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
Bachelor of Science, Major in Computing Science (Dean's Honour Roll)

Vancouver, BC
Sep 2020 - Present