Amin Fahiminia

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Education

University of British Columbia — Vancouver, BC
Bachelor of Applied Science, Computer Engineering — *Expected May 2025*
CGPA: *86%, Dean's Honor List*
Courses: *Software Construction in Java, Data Structures and Algorithms, Computer Hardware/Firmware*

Technical Skills

Languages: Python, Java, C, C++, JavaScript, TypeScript, HTML/CSS, Dart, Kotlin, YAML, SQL
Frameworks: Flask/ExpressJs, React JS, Firebase, Flutter, RESTful API's, Docker, JUnit/unittest, Jupyter Notebook
Developer Tools: Git/GitHub, Android Studio, GitLab CI/CD, Postman, Testrail, Linux, Jira, Confluence

Technical Experience

Software Engineer in Test — May 2023 – Present
Trulioo — *Vancouver, CA*

- Implemented Selenium automation tests for 31 languages on Android, iOS and Web platforms; designed and automated a robust test infrastructure using Kotlin and Selenium, achieving significant reduction in manual testing time and ensuring cross-platform seamless functionality.
- Addressed fragmented test coverage by architecting multi-platform CI pipelines; enabled one repository to initiate E2E tests from another, resulting a 90% increase in test coverage across platforms
- Designed and executed comprehensive API and End-to-End tests for the Document Verification application using Kotlin, ensuring robust validation of the application. Led to a significant enhancement in overall system reliability and streamlined regression testing substantially.
- Leveraged Agile methodologies with Confluence and Jira to streamline sprint executions, enhancing collaboration and ensuring timely, high-quality software deliveries.

Software Developer — Sep 2021 – Present
UBC Uncrewed Aircraft Systems — *Vancouver, CA*

- Designed and implemented a RESTful API capable of handling dynamic flight mission queues through GET and POST requests, sending appropriate coordinates to the drone in real time.
- Developed advanced Python scripts for MissionPlanner, empowering the drone to autonomously compute flight paths while avoiding user-defined exclusion zones.
- Constructed a web-application utilizing the React framework as well as Typescript, HTML, and CSS that streamed a live feed from an autonomous gimble and provided means for real-time control. Utilized in competition.

Projects

IntelliFeeder Smart Pet Feeder | *Vue.js, Flask, Python, Nginx, TensorFlow, OpenCV*

- Developed an intuitive user interface using Vue for IntelliFeeder, enabling on-demand feeding or daily schedule customization, ensuring timely and portion-appropriate meals for pets.
- Architected a robust backend using Flask/Python, seamlessly served via Nginx, facilitating comprehensive feeding history tracking for consistent and informed dietary management of both cats and dogs.
- Implemented a cutting-edge camera feature leveraging TensorFlow for machine learning and OpenCV for image capturing. This integration provides real-time updates during feeding, enhancing remote monitoring and wellbeing checks for pets.

CaptionConcierge (NWHacks 2023) | *Python/Flask, ReactJs, HTML/CSS, Object Oriented Design*

- Developed and Tested a full-stack web application that interacted with the OpenAI and Youtube API's
- Wrote a server side, object-oriented program in Python/Flask that sent/received HTTP Requests and processed data into JSON Objects

Twitter Listener Server | *Java, JUnit, TCP/UDP Protocols, Git*

- Integrated a thread-safe query service for fetching Tweets using Twitter's built-in API in Java
- Developed a server that wrapped for the service, allowing it to be hosted on the web to handle requests worldwide