

Amin Fahimi

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EDUCATION

University of British Columbia

Bachelor of Applied Science, Computer Engineering

CGPA: 86%, *Dean's Honor List*

Courses: *Software Construction in Java, Data Structures and Algorithms, Relational Databases (SQL)*

Vancouver, BC

Expected May 2025

TECHNICAL SKILLS

Languages: Python, Java, C#, C++, JavaScript, TypeScript, HTML/CSS/SASS, Dart, Kotlin, YAML, SQL

Frameworks: Flask/ExpressJs, React JS, Firebase, Flutter, RESTful API's, Docker, JUnit/unittest, Jupyter, Selenium

Developer Tools: Git/GitHub, Android Studio, GitLab CI/CD, Postman, Testrail, Linux, Jira, Grafana, Firestore

TECHNICAL EXPERIENCE

Software Engineer

The Boeing Company

Jan 2023 – Present

Richmond, BC

- Developed a front-end feature with React to provide fine-grained control over safety event handling, significantly enhancing operational efficiency within the flight safety web application.
- Implemented Flask classful routes to expand support for new safety event types, resulting in an enhanced user experience and a streamlined application architecture.
- Restructured the company's PostgreSQL database to accommodate new event types and optimize existing models, leading to improved data access and a 20% reduction in query times.

Software Engineer in Test

Trulioo Information Services

May 2023 – Dec 2023

Vancouver, BC

- Developed Selenium tests (Kotlin/Appium) across Android, iOS, and Web for 31 languages, fully automating manual testing and ensuring cross-platform functionality.
- Designed multi-platform CI pipelines to increase test coverage by 90%, enabling cross-repository E2E testing.
- Wrote and deployed machine learning automation tests for TensorFlow models using PyTest and Prometheus, enhancing model accuracy and performance by 40%.

Teaching Assistant, UBC CPEN 221 (Software Construction in Java)

Aug 2023 – Present

- Served as an UTA, instructing 250+ students in object-oriented programming and leading interactive coding labs.
- Provided individualized support through office hours, mentoring students in complex programming concepts.

Software Developer

UBC Uncrewed Aircraft Systems

Sep 2021 – Present

Vancouver, BC

- Architected a RESTful API for dynamic flight mission queuing, enabling real-time drone coordinate transmission.
- Utilized Shapely and Python to compute autonomous flight paths and navigate around user-defined exclusion zones.

PROJECTS

MyGameManager – Survival Videogame Database | *React.js, TypeScript, Oracle DB, SQL, PHP*

- Crafted a React front-end to dynamically manage a survival game database, ensuring a seamless user experience.
- Built a robust PHP backend, creating a RESTful API to power database interactions and server-side hosting.
- Designed an Oracle DB schema to model complex game world elements such as characters, quests, and inventories.

B-ing Chillioo - A Picnic-Social Slack Bot | *AWS Lambda, Python/Flask, API Development, Concurrency*

- Implemented a Python/Flask API system for seamless Slack integration, simplifying real-time event management.
- Utilized AWS Lambda for a serverless and scalable bot infrastructure, enhancing responsiveness and availability.
- Established a concurrent queue to manage picnic events, preventing conflicts and streamlining the planning process.

CreatureCompendium - A Dynamic Creature Collection App | *Flutter, Firestore Integration, Selenium*

- Created a cross-platform Flutter app to manage a dynamic creature list, enabling sorting for improved navigation.
- Integrated Firestore to ensure real-time database connectivity, enabling automatic updates for accurate data.
- Utilized Selenium to automate the collection of comprehensive creature data for up-to-date accuracy.