

Aryan Ballani

aryanballani@gmail.com | github.com/aryanballani | linkedin.com/in/aryanballani | +1 (236) 997-3533

Skills

Programming Languages: | TypeScript | JavaScript | HTML | Java | CSS | Scala |

Databases: | OracleDB | MySQL | T-SQL | MongoDB | SQLite | PostgreSQL |

Tool/Environment: | Docker | Git | REST | Terminal | Angular | Azure | API | AWS | Git Bash | Spark | Kafka

Soft skills: | Communication | Leadership | Versatility | Organization | Creative | Analytical | Self-driven | Time Management |

Additional: | Selenium | ScalaTest | TensorFlow | NLTK | Plotly | NumPy | Matplotlib | Agile | Object-Oriented Programming

Work Experience

BC Liquor Distribution Branch | *Software Developer - QA Automation* | May 2024 – Present | Burnaby, BC

- Increased **testing efficiency** by 25% through automation with EPF, **.NET C#** (selenium driver), and **Oracle SQL** scripts.
- Enhanced application speed by 12% by collaborating with developers, writing unit test cases in Spring-boot using Mockito and Junit, and **optimizing database access** with SQL scripts.
- Used Azure Boards in 2-week sprints with daily **scrums**, delivering on deadlines and attaching reports to Azure Test Plans.
- Reduced code redundancy and saved time by structuring base architecture for the CARM project and implementing comprehensive testing strategies. (Regression, Smoke, End-to-End tests)

UBC Computer Science Dept. | *Undergraduate Teaching Assistant* | Jan 2024 – Apr 2024 | Vancouver, BC

- Efficiently handled doubts for more than 12 students in the allotted 1-hour timeslot for Office Hours.
- Conducted **engaging labs** with more than 50 students, explaining **diverse computer science concepts**.
- Proctored computer-based exams, ensuring **academic integrity** and addressing issues.
- Streamlined procedures, supporting a 30% course increase in CBTF and enhancing professor **communication**.

Projects

Campus Capture | *TypeScript, JavaScript, HTML, CSS*

- Optimized data handling with **asynchronous calls**, reducing data processing time by **35%** ensuring efficient processing of **50000 observation**, enhanced data retrieval using parse5, fs-extra, and JSZip, enabling parsing of diverse file formats.
- Collaborated in an **Agile environment** to ensure reliability through rigorous testing (over 75 test cases) across backend, HTML parsing, and frontend design, ensuring seamless integration through a **RESTful API** design using **express js**.

Entertainment Management System | *Java, Junit, GUI, Json, Git*

- Developed a GUI application for **movie data management**, enabling users to track over 500 movies, add/remove titles from watchlists, and mark favorites. Utilized JSON for data storage, allowing for personalized user experiences.
- Implemented an **event log** for activity tracking, improving user interaction tracking and reducing debugging time by 30%. Enhanced data management efficiency with a 20% faster load/save time.

2048-game | *python, pip3, venv, NumPy*

- Developed a customizable 2048 console-based game in Python with **adjustable board sizes** and **tile probabilities**, enhancing gameplay flexibility.
- **Documented** setup instructions, making game instructions clear and reducing setup time by 40%..

Bookstore Management System | *Python, MySQL*

- Developed a comprehensive database management system for a bookstore, **efficiently tracking inventory** using and SQL database and automating services like book issuing, returns, and purchases.
- Integrated with MySQL, creating and managing a database of **over 15,000** records. Leveraged Python libraries to perform key operations, **speeding up data retrieval** by 30%.

Education

University of British Columbia | *BSc. Combined major Computer Science and Statistics, Minor in Data Science*

- **Dean's Honor List** sessional standing for **3** consecutive years: **4.0/4.33** GPA
- Relevant Coursework: Software Engineering, Data Structures and Algorithms, Hardware and Operating Systems.