

BARUN GAMBHIR

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EDUCATION

Simon Fraser University

Bachelor of Science in Computer Science, Minor in Mathematics

Sep 2020 – Aug 2024

Burnaby, BC

- **GPA:** 3.77 / 4.33
- **Awards:** President's & Dean's Honor List, Undergraduate Open Scholarship
- **Relevant Coursework:** Software Engineering, Quality Assurance Engineering, Full Stack Web Development, Systems Programming, Object Oriented Programming, Networking, Database Systems, Enterprise Information Security.

EXPERIENCE

Software QA Analyst

Motorola Solutions

Jan 2023 – Sep 2023

Vancouver, BC

- Developed and executed test plans to cover business requirements and performed functional, regression, and user-acceptance testing, documenting any defects identified.
- Automated 75% of manual testing efforts by scripting tests in Provar and Selenium, which significantly improved testing efficiency and accuracy.
- Performed data validation and integrity checks by querying the customer relational database using SQL, ensuring accurate data transfer.
- Integrated automated tests into Jenkins CI/CD pipelines, streamlining the deployment process and ensuring continuous delivery of high-quality software.
- Reduced defect resolution time by 25% through effective tracking, documentation, and resolution of issues across multiple sprints, while performing root cause analyses.
- Conducted end-to-end testing using SAP ERP (S/4HANA Cloud) to ensure seamless data flow with the Salesforce CRM platform.

PROJECTS

InterviewPrep 🌐 🌐 | Typescript, React, NodeJS, ExpressJS, MongoDB, Defang

- Developed and deployed an AI-driven interview preparation platform integrating OpenAI API (GPT 4-o model) for generating customized interview questions and providing detailed feedback, improving interview skills.
- Implemented speech-to-text functionality and robust backend services to handle user data and feedback analysis and utilized MongoDB with Mongoose for efficient data management.

Tales 🌐 | Javascript, React, NodeJS, ExpressJS, MongoDB, GCP

- Developed a full-stack app that transforms textual stories into narrated image sequences using OpenAI API to simplify prompts and reduce story narration time by 50%.
- Ensured 100% reliability and functionality of backend APIs by conducting thorough REST API testing, writing high-quality functional unit tests, and executing comprehensive regression tests.

Social Gaming Platform 🌐 | C++, JSON, Google Test

- Implemented a single-threaded network server to efficiently handle HTTP and WebSocket connections, ensuring low-latency communication for real-time multiplayer games.
- Structured the server code for modularity, ensuring easier maintenance and scalability, and wrote quality test cases for the server incorporating the Google Test framework.

Recyclopedia Mobile App 🌐 | Java, XML, Android Studio

- Developed an Android app incorporating Object-oriented design and programming in Java and utilized SQLite for storing user data.
- Designed the application using XML and worked with four different activities, each having unique features, and merged them all at the end.

TECHNICAL SKILLS

Languages: Java, JavaScript, Typescript, C#, C, C++, Python, HTML, CSS, MySQL, Postgres, x86 Assembly

Technologies: React, Angular, NodeJS, ExpressJS, MongoDB, Selenium, Jasmine, Google Test, JUnit