BARUN GAMBHIR

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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
Tools: GitHub, Bitbucket, Jenkins, Google Cloud Platform (GCP), Docker, Postman, Vim, Linux CLI, MS Office

EXPERIENCE

Software QA Analyst   Jan 2023 – Sep 2023
Motorola Solutions   Vancouver, BC

- Developed and executed test plans to cover business requirements and performed functional, regression, and user-acceptance testing, documenting any defects identified.
- Performed data validation and integrity checks by querying the customer relational database using SQL, ensuring accurate data transfer.
- Conducted end-to-end testing using SAP ERP (S/4HANA Cloud) to ensure seamless data flow with the Salesforce CRM platform, reducing the processing time for customer transactions by 20%.

Technical Services Assistant   Jan 2022 - Aug 2022
Microserve   Vancouver, BC

- Provided end-user technical support at health authorities ensuring 100% customer satisfaction.
- Troubleshot and resolved issues, leading to a 25% reduction in network-related incidents, minimizing downtime.
- Communicated and collaborated with business teams on the clinical and systems transformation (CST) project.

PROJECTS

InterviewPrep ⧉ ⏻ (StormHacks Hackathon Winner) | *Typescript, React, NodeJS, ExpressJS, MongoDB*
- 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.

Plantify ⏻ | Python, TensorFlow, Keras, React
- Developed an AI model built with Python, TensorFlow, and Keras (CNN) and trained it with 10,000+ leaf images to accurately detect plants' health conditions.
- Actively working on optimizing the model's accuracy, with current training accuracy at 90.02% and validation accuracy at 88.33%, through continuous testing, and incorporating additional data.

Tales ⏻ | *Javascript, React, NodeJS, ExpressJS, MongoDB, Google Cloud Platform*
- 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.

EDUCATION

Simon Fraser University   Sep 2020 – Aug 2024
Bachelor of Science in Computer Science, Minor in Mathematics   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.