Amitoz Jatana

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EDUCATION

University of Toronto   Toronto, ON
Bachelor of Science in Computer Science, Software Engineering Stream   *Sept. 2021 – Present*

EXPERIENCE

Software Developer   May 2024 – Present
Royal Bank of Canada (RBC)   *Toronto, ON*
- Implemented seamless vendor binary validation by running a Docker image of a malware scanning tool in GitHub Actions, leveraging AWS Lambda for automation, S3 for storage, and IAM roles/policies for secure access control.
- Developed a Python script utilizing AWS Glue to transmit audit logs from Postman to an S3 bucket for long-term storage, ensuring adherence to Enterprise data retention standards and reducing potential data loss by 100%.
- Led QA testing for 15+ DevOps tools using Selenium and PyTest, managing test suites to ensure system stability.
- Designed automation for manual DevOps tasks, saving 20+ hours monthly and enhancing reporting capabilities.

Web Developer   Sept. 2023 – Dec. 2023
Treasury Board Secretariat   *Toronto, ON*
- Developed engaging web pages using React, HTML, CSS, and JavaScript, achieving a 95% usability rating.
- Migrated backend from SharePoint to SQL, implementing robust CRUD functions for 10+ components, enabling the website to operate efficiently even with a large user base.
- Implemented automated testing using Jest with a 98% test coverage to ensure optimal performance.
- Effectively used Git version control within Azure DevOps, actively managing feature branches and utilizing Kanban boards and pipelines to ensure seamless collaboration throughout the development lifecycle.

PROJECTS

PassionPals Web Application | *MERN Stack, REST API, Agile, MongoDB Atlas*   [GitHub](#)
- Led Agile development as Scrum Master, supporting 200k+ users in finding events based on shared interests.
- Engineered a three-tiered architecture using the MERN stack and a REST API.
- Implemented a recommendation algorithm, increasing user engagement by 85%.
- Perfomed project scoping and ticketing using Jira while leveraging MongoDB Atlas for efficient data management.

Course Assist Application | *Java, Firebase Realtime Database, JUnit, Android*   [GitHub](#)
- Developed an innovative Android application enabling 50k+ students to effectively plan their courses.
- Implemented login and course management (add, update, delete) using Java and Firebase Realtime Database.
- Conducted unit testing with JUnit and Mockito, achieving 95% reliability.
- Collaborated with a Scrum team to deliver six user stories, adhering to Agile principles and used Jira for tracking.

Google Trends Tool for LangChain | *TypeScript, Node.js, Open-Source Contribution*   [GitHub](#)
- Contributed to LangChain's open-source community by developing a Google Trends Tool, building core functionality in TypeScript to support 5+ features, including trend analysis and related queries.
- Enhanced adoption and usability by adding detailed documentation, real-world examples, and integration tests.

Face Recognizer | *Python, OpenCV, Machine Learning*   [GitHub](#)
- Developed a precise face recognition model using OpenCV and Python, achieving a recognition accuracy of 95%.
- Trained the face recognizer by extracting facial features from a curated dataset comprising 100+ images and subsequently applying the LBPH algorithm for effective machine learning.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL (Postgres), JavaScript, TypeScipt, HTML/CSS
Frameworks: React, Node.js, Flask, JUnit, Tailwind, Mockito, Express, Pandas
Developer Tools: Git, Docker, Kubernetes, Postman, VS Code, PyCharm, IntelliJ, Eclipse, GitHub
Concepts: Design Patterns, Agile Methodology (Scrum), OOP, Data Structures and Algorithms