Akbar Zafar

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Languages: Java, TypeScript, JavaScript, SQL, C++, HTML/CSS, Python, VHDL.

Technologies: Angular, React Native, Flask, Protractor, Selenium.

Tools: Git, Eclipse, Visual Studio Code, Docker, PostgreSQL, TravisCI, Unity.

Education

University of Waterloo   Sept 2019 – April 2024

Candidate for B.ASc. in Computer Engineering

Relevant Courses: Algorithms and Data Structures, Digital Computers, Numerical Methods, Discrete Math and Logic, Digital Circuits and Systems.

Experience

Software Developer / uOttawa Engineering Outreach   May 2020 – August 2020

- Worked as a **full-stack** software developer in a **scrum** team of 6-8, utilizing **Apache Sling**, **Java**, **Angular**, **PostgreSQL**, **Protractor,** and **Ruby**.
- Converted Selenium tests to Protractor using page object methodologies improving test time by 155%.
- Added customization features to support customer private labeling to increase customer engagement.
- Introduced a region feature allowing customers to create and manage personal regions.
- Updated old endpoints and implemented unit tests to produce a maintainable format.

Projects

Mover App / React Native, Flask, SQLite   August 2020

A cross platform product to make moving easier and organized.

- Built a web application using a React Native, Flask, and SQLite.
- Integrated **Google** and **Facebook** sign-in for easy user access.
- Implemented a **QR code scanner** using RNCamera allowing users to keep track of items in a box.

Sudoku Solver / Python   July 2020

A solver for the game of sudoku: Sudoku Solver

- Developed and implemented a solving algorithm utilizing backtracking through recursion.
- Created a user-friendly GUI with the use of Pygame.

PricePoint / JavaScript, UiPath   January 2020

Winner for best UiPath automation hack.

A web application to find the best deals for products: PricePoint

- Developed a web scraper to retrieve best sellers from e-commerce websites such as Amazon and eBay utilizing **UiPath** automation.
- Frontend developed with Bootstrap and handlebars.js for optimal user experience.

Explorer Quest / Java   August 2018

Strategic turn based game on Android: Explorer Quest

- A turn based strategic game in Java on Android with an intuitive UI.
- Responsive GUI using animated sprites to streamline user experience.