

Akbar Zafar

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Skills

Languages C, C++, Golang, Java, JavaScript, Python, SQL

Tools Angular, AWS, Docker, Kubernetes, Git, Linux, PostgreSQL, React Native

Work Experience

SAP

Remote

CLOUD INFRASTRUCTURE DEVELOPER | PYTHON, GOLANG, AWS, KUBERNETES.

Sept 2021 - Dec 2021

- Implemented a customized Kubernetes management engine to execute pipelines over distributed clusters
- Restructured the main CI/CD pipeline from Jenkins to Argo Workflows parallelizing independent scheduled jobs
- Resolved multiple resource availability edge cases during cloud database cleanup
- Replaced the deprecated internal database management system with the current industry standard

Kaleidescape

Remote

SOFTWARE ENGINEER | JAVA, JAVASCRIPT, FFMPEG, AND POSTGRESQL.

Jan 2021 - Apr 2021

- Leveraged FFMPEG to develop async tools providing image stats of a specified frame in a real-time dashboard
- Integrated a custom MXF/MP4 image-differencing algorithm with region selection for further analysis
- Optimized transcoding pipeline by allowing shorter transcodes reducing operations team idle time by 99%
- Developed an environment for applying and previewing custom filters with visualized breakdown of color spaces

University of Ottawa

Remote

SOFTWARE DEVELOPER | APACHE SLING (JAVA), ANGULAR (TYPESCRIPT), AND POSTGRESQL.

May 2020 - Aug 2020

- Migrated Selenium tests to Protractor using page object methodologies improving test time by 60%
- Created a landing page customization feature to support white labeling increasing customer engagement
- Introduced a region dashboard utilizing a REST API allowing customers to manage their personal regions
- Refactored API endpoints in Java and implemented unit tests to improve readability

Projects

Image Concatenator

An image concatenator application

- Leveraged the cURL library in C to pull remote images and merge raw pixel data with adequate compression/decompression algorithms
- Parallelized the procedure using multiple threads with shared memory synchronized through mutexes.

Moovitt

A cross platform product to make moving easier and organized

- Built a web application using React Native, AWS Amplify, and DynamoDB
- Integrated Google sign-in utilizing Cognito user-pools centralizing user access
- Implemented a QR code scanner using expo camera enabling easy item management

PricePoint

WINNER FOR BEST UiPATH AUTOMATION HACK

A web application to find the best deals for products

- Developed a custom web scraper to retrieve best sellers from e-commerce websites by leveraging UiPath automation
- Designed a user-focused Frontend with Bootstrap and handlebars.js for a reactive UX

Explorer Quest

Strategic turn based game on Android

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

Education

University of Waterloo

Waterloo, ON, Canada

CANDIDATE FOR B.ASC. IN COMPUTER ENGINEERING

Sept 2019 - Apr 2024