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

Arctic Wolf
Jan 2023 - April 2023

SOFTWARE DEVELOPER | REACT(TYPESCRIPT), GO, PYTHON.

- Improved test coverage to 90% through unit and integration testing, enhancing code quality and maintainability
- Implemented end-to-end support for selection of new sensor options for a more tailored customer experience
- Enhanced team productivity by automating customer onboarding tasks, saving costs through reduced man-hours

BioRender
May 2022 - Aug 2022

SOFTWARE INFRASTRUCTURE DEVELOPER | TYPESCRIPT, AWS.

- Restructured the payments workflow by integrating the stripe API expanding user payment capabilities
- Migrated existing infrastructure to AWS by leveraging AWS CDK, saving $14,000 USD annually in overhead expenses
- Enhanced application sustainability with EC2 security policies and data visualization dashboards for core services

SAP
Sept 2021 - Dec 2021

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

- 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
- Repaired the database purging service by addressing resource availability bugs improving product sustainability

Kaleidescape
Jan 2021 - Apr 2021

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

- Enabled performance monitoring by engineering a real-time dashboard and tools for image frame statistics
- Improved transcoding pipeline by implementing a data fragmentation process to eliminate verification wait times
- Developed an end-to-end custom filter feature with real-time preview capabilities in an analytical dashboard

University of Ottawa
May 2020 - Aug 2020

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

- 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

Projects

VHDL Compiler ↗

- Created a compiler following the interpreter and visitor design patterns for the VHDL language in Java including a recognizer and simplifier

Moovitt ↗

- Built a cross platform application using React Native, AWS Amplify, and AWS DynamoDB to organize the moving process. Features include Google sign-in integration, and a QR code scanner to improve the user experience

PricePoint ↗

- Developed a custom web scraper to retrieve best sellers from e-commerce websites by leveraging UiPath automation

Explorer Quest ↗

- Created a turn based strategic adventure game on Android featuring fun sprite animations and monster battles

Education

University of Waterloo
Waterloo, ON, Canada

BACHELORS IN COMPUTER ENGINEERING
Sept 2019 - Apr 2024

Relevant courses: Software design and architecture, Computer security, Compilers, Real-time operating systems, Systems programming and concurrency, Data structures and algorithms