

Akbar Zafar

Education | 416-873-8797 | m27zafar@uwaterloo.ca | AkbarZafar | in akbarzafar

University of Waterloo

BACHELORS IN COMPUTER ENGINEERING

Waterloo, ON, Canada

Sept 2019 - Apr 2024

Relevant courses: Compilers, Operating systems, Systems programming and concurrency, Data structures and algorithms

Work Experience

Arctic Wolf

Jan 2023 - Present

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

- Currently working as a Full-Stack developer to enhance the on boarding experience for new and existing customers

BioRender

May 2022 - Aug 2022

SOFTWARE DEVELOPER | TYPESCRIPT, AWS.

- Restructured the payments workflow by employing stripe to support additional payment methods
- Leveraged AWS CDK to develop infrastructure as code, saving \$14,000 USD annually in overhead expenses
- Strengthened the security of the application, by implementing the principle of least privilege for EC2 security groups
- Improved observability by implementing dashboards for multiple core services improving mean time to recovery

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
- Resolved multiple resource availability edge cases during cloud database cleanup
- Replaced the deprecated internal database management system with the current industry standard

Kaleidescape

Jan 2021 - Apr 2021

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

- 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

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
- Refactored API endpoints in Java and implemented unit tests to improve readability

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

Skills

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

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