Omar Alashqar

oalashqar.me

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RELEVANT EXPERIENCE

Software Engineering Intern | IBM Canada

Toronto, Sep - Dec 2020

- Containerized existing applications into **Docker** format for ease of deployment onto cloud platforms
- · Built and monitored automated CI/CD pipelines for testing and deployment, improving reliability
- · Designed and implemented cloud infrastructure for various projects using IBM Cloud
- · Documented design decisions, trade-offs, and infrastructure details for project deployments
- · Investigated the use of event-driven architectures utilizing Kafka and gRPC for future projects

Data Engineering Intern | Loblaw Digital

Toronto, Jan - Apr 2020

- · Led R&D effort for a Data Governance integration to proactively validate data in BigQuery
- Developed ETL data pipelines in Python, collaborating with teams to deliver business insights
- · Migrated pipeline scheduling to Apache Airflow to improve system reliability and documentation
- · Integrated access permission configuration (ACL) for BigQuery into an internal ETL framework

Software Developer | MAJiK Systems

Kitchener, May - Aug 2019

- Implemented stateful streaming data pipelines using Apache Beam to process time-series data
- · Co-Led full-stack development of an IIOT dashboard tool with rapid feedback and iteration cycles
- · Developed a GraphQL data mocking utility to improve test coverage and design storyboarding

Software Developer | MAJiK Systems

Kitchener, Sep - Dec 2018

- · Implemented a task scheduling and tracking system for factory operators using recursive state machines and data streams; developed iteratively with customer feedback
- Integrated GraphQL Subscriptions, improving codebase readability and enabling simpler client code
- · Built an alternative installer using the **WiX Toolset** for customers that cannot use Docker on Windows

PROJECTS

Link Vis | [Golang, ReactJS] Multi-threaded web crawler with a graph visualization web-app

ASCII generator | [NodeJS] Image to ASCII converter that supports files and webcam images

Robot arm visualizer | [C++, NodeJS] Utility to visually test IK path planning for 3R robot arm

Reddit Clone | [NodeJS, ReactJS] Full-stack reddit clone with posts and votes

SKILLS

Languages C, C++, Golang, Java, JavaScript, TypeScript, Python, Bash, Verilog, RISC-V ASM **Technologies** SQL, MongoDB, BigQuery, Kafka, ZooKeeper, NGINX, NodeJS, ReactJS, GraphQL

Tools Docker, Jenkins, Git, AWS, GCP, IBM Cloud, Linux

Hobbies Reading, Bouldering, Design, Movies, Gaming, Ping pong, and more!

EDUCATION

BASc in Computer Engineering | University of Waterloo

Sep 2017 - May 2022 (Expected)

- · President's Scholarship for Academic Achievement, 2x Term Dean's Honours List
- · Relevant courses: Distributed Computing, Computer Security, Compilers, Networking, OS