Omar Alashqar

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RELEVANT EXPERIENCE

Software Engineering Intern | Global Trading Systems (GTS)

New York, Sep - Dec 2021

• Building a scalable real-time log processing pipeline using **Spark** that parses over 2 billion events daily to enable analysts to track progress on trading orders across 20+ exchanges

Software Engineering Intern | IBM Canada

Toronto, Sep - Dec 2020

- Containerized existing applications into **Docker** format for ease of deployment onto cloud platforms
- Deployed internal projects onto IBM Cloud with automated CI/CD, allowing analysts to share and demo dashboards, alleviating manual effort for ETL processes, and improving the system's reliability
- Documented design decisions, trade-offs, and infrastructure details for project deployments, making them more maintainable and providing a concise description of the system's behavior
- 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 for a **Data Governance** integration to proactively validate data in **BigQuery**, reducing the need for data analysts to raise issues about the datasets, leading to less workflow disruptions
- Migrated pipeline scheduling to Airflow, improving the system's reliability and documentation
- Integrated ACL configuration for BigQuery into an internal ETL framework, improving data security
- Developed ETL data pipelines in Python in collaboration with analysts to deliver business insights

Software Developer | MAJiK Systems

Kitchener, May - Aug 2019

- Investigated using Apache Beam streaming data pipelines for a possible improvement in throughput
- Iterated on a new full-stack dashboard for clients' IIOT devices, opening a new revenue stream
- Developed a GraphQL data mocking utility, improving test coverage and design storyboarding

Software Developer | MAJiK Systems

Kitchener, Sep - Dec 2018

- Implemented a customer-facing task scheduling and tracking system using recursive state machines and data streams for factory operators, improving production quality and factory operations
- Integrated GraphQL Subscriptions, improving codebase readability and enabling simpler client code
- Built a program 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 Reddit Clone | [NodeJS, ReactJS] Full-stack reddit clone with user posts and voting system

SKILLS

Languages C, C++, Golang, Java, JavaScript, Scala, Python, Bash, Verilog, RISC-V ASM **Technologies** SQL, MongoDB, BigQuery, Redis, Kafka, Spark, AWS, GCP, Docker, Jenkins, Git

EDUCATION

BASc in Computer Engineering | University of Waterloo

Sep 2017 - May 2022 (Expected)

- President's Scholarship for Academic Achievement, 3x Term Dean's Honours List
- · Relevant courses: Distributed Computing, Concurrency, Security, Compilers, Networking, OS