

# Omar Alashqar

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## RELEVANT EXPERIENCE

**Software Engineering Intern** | [GTS](#) New York, Sep 2021 - Present

**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

**Software Developer** | [Rich Media](#) Toronto, Jan - April 2018

- Developed custom client-side routing, web UI components, and data visualizations using JavaScript

## 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 posts and votes

## SKILLS

<b>Languages</b>	C, C++, Golang, Java, JavaScript, TypeScript, Python, Bash, Verilog, RISC-V ASM
<b>Technologies</b>	SQL, MongoDB, BigQuery, Kafka, ZooKeeper, NGINX, NodeJS, ReactJS, GraphQL
<b>Tools</b>	Docker, Jenkins, Git, AWS, GCP, IBM Cloud, Linux
<b>Hobbies</b>	Reading, Bouldering, Design, Movies, Gaming, Table tennis, and more!

## 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, Computer Security, Compilers, Networking, OS