

Omar Alashqar

🏠 oalashqar.me
✉ omar.alashqar@uwaterloo.ca
🐙 github.com/OmarAlashqar
in linkedin.com/in/OmarAlashqar

EXPERIENCE

Software Engineering Intern | IBM Canada Toronto, Sep - Dec 2020

- Containerized existing applications into Docker format for ease of deployment
- 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 while following best practices

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 for BigQuery into an internal ETL framework

Software Developer | MAJiK Systems Kitchener, May - Aug 2019

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

Software Developer | MAJiK Systems Kitchener, Sep - Dec 2018

- Developed recursive data structure for a complex use case, iterating based on customer feedback
- Improved codebase readability by implementing best practices and extending a GraphQL API
- Built an alternative deployment tool for a subset of customers that cannot use Docker on Windows

Web Developer | Rich Media Toronto, Jan - April 2018

- Developed web components for custom client-side routing and data visualizations using ReactJS

PROJECTS

Link Vis | Multi-threaded web crawler with graph visualization web-app (Golang, ReactJS)

ASCII generator | Image to ASCII converter that supports files and webcam images (NodeJS)

WAV file player | Embedded system for playing songs from an SD card (C)

ACTIVITIES

Software & Electrical sub-teams member | UW Robotics Team Waterloo, Sep - Dec 2018

Co-Founder & Tutor | High school Code Club Mississauga, Oct 2016 - Jun 2017

Lead Programmer | FIRST Robotics Team 6378 Mississauga, Oct 2016 - Jan 2017

SKILLS

Languages	C, C++, Java, JavaScript, TypeScript, Python, Bash, Verilog, RISC-V ASM
Technologies	SQL, MongoDB, BigQuery, Apache Beam, NodeJS, ReactJS, GraphQL
Tools	Docker, Jenkins, Git, AWS, GCP, IBM Cloud, Linux
Hobbies	Reading, Boulderling, Design, Movies, Snowball fights, and much 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:** Compilers, Networking, Operating Systems, Concurrency