# Omar Alashqar

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## 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-Lead & Tutor** | High school Code Club                    Mississauga, Oct 2016 - Jun 2017
**Lead Programmer** | FIRST Robotics Team 6378                    Mississauga, Oct 2016 - Jan 2017

## SKILLS

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|---|---|
| **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, Bouldering, 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