

Laeek Ahmed Shaikh

Computer Science Student, Aspiring Software Developer and Data Engineer

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Education

B.A.Sc. Honors, Computer Science (Co-op) - McMaster University

Expected Graduation: May 2025

- GPA: 3.8/4.0
- Awards: Term Honours - Dean's Honour List, The McMaster University Award of Excellence.
- Participated in 3 hackathons, securing category awards in 2.
- Relevant Courses: Data Structures Algorithms, Object Oriented Programming, Databases, Software development

Technical Skills

Languages	Python, C/C++, SQL, Bash, Java, TypeScript/JavaScript, GraphQL, HTML/CSS
Libraries/Frameworks	Express with Node.js, React.js, Next.js, Tkinter, SQLite, Matplotlib, Tailwind
Tools	GCP, Git/GitHub, Docker, WSL, Linux, Terraform, MongoDB, SQLite, Postgres, Jupyter, Insomnia
Big Data	Airflow, Spark, BigQuery, Dbt, Dataproc, Kafka, Hadoop, Hive, Looker studio

Work Experience

Teaching Assistant - McMaster University

June 2023 - Present

Hamilton, Ontario

- Conducted weekly tutorials on C, bash, LaTeX, and git, enhancing students' understanding of the material.
- Supervised 60+ students from 2 different classes simultaneously in coordination with professors and fellow TAs.
- Demonstrated strong debugging abilities to resolve various challenges and simplify the learning process.

Web Developer - Tech Team McMaster MSA

Dec 2022 - April 2023

Hamilton, Ontario

- Contributed to the development of an interactive application leveraging **React.js** and **Express.js** with **TypeScript** for the club's monthly game tournaments.
- Delivered user-centric features such as rankings and player challenges, facilitating online interactions between **50+** club members.
- Improved reliability by validating and optimizing **RESTful** and **GraphQL** APIs using testing tools like Insomnia.

Projects

[NoteSpot - Note sharing Application ↗](#)

- Built a **full stack** Web-App/Online Library based on the **MVC** pattern, enabling users to share, download, & upload Notes/Books as large as 20 MB.
- Set up **AWS S3** and **MongoDB** Atlas as the database to efficiently store and manage files and their metadata.
- Implemented secure authentication through **Auth0**, enabling user management and preventing unauthorized access.
- Designed a robust **RESTful** API using Express.js facilitating seamless execution of various CRUD operations.

[TTC delay data analysis ↗](#)

- Developed an efficient **ETL** workflow to extract and evaluate 130K + delay records from TTC buses, subway trains, and streetcars.
- Executed jobs on Apache **Spark** clusters setup using **Dataproc** to perform comprehensive data transformations.
- Crafted impactful **Looker** Studio dashboards for insightful visualization, enabling data-driven decision-making.
- Leveraged **Terraform** and **Airflow** to deploy and dismantle infrastructure, yielding a significant **25%** reduction in computing costs.

[Flypedia - flight status tracker ↗](#)

- Set up **Next.js** apps router to build a flight status tracking website utilizing React's latest features
- Integrated real-time flight details from the Airlabs API to provide comprehensive information on **3000+** flights
- Implemented efficient caching techniques, significantly reducing API calls, resulting in **50%** cost savings and faster response times for users

[Data-Base Management System ↗](#)

- Designed a DBMS for a hospital using **Python** and **SQLite** to automate and simplify record management.
- Improved the user experience by creating a **GUI** for the system using Python's **Tkinter** library.