

# MUHAMMAD ABDULLAH MOTASIM

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## Education

### University of Toronto

September 2022 – May 2026

BASc, Computer Engineering, Minors in AI, Statistics, and Business

Toronto, ON

**Relevant Courses:** Programming Fundamentals, Applied Fundamentals of Deep Learning, Statistics for Machine Learning, Probability, Statistics and Data Analysis, Data Structures and Algorithms

## Experience

### Student Feedback Analyst

May 2023 – August 2023

University of Toronto

Toronto, ON

- Collaborated with the Human Biology faculty to enhance and enrich the student learning experience.
- Performed 12 interviews with graduate students to gather feedback on departmental experiences, evaluating these interviews to identify opportunities for improvement, and presenting these findings to professors in a professional setting.
- Developed strong skills in oral/written communication, qualitative analysis, and public speaking.

### Engineering Team Leader

January 2023 – April 2023

Chestnut Residence Faculty

Toronto, ON

- Collaborated with a team of 5 engineering students to redesign a social study space within a student residence.
- Worked as team leader to ensure client needs and deadlines were satisfied. Designed a robust solution that utilized 20% of previously unclaimed space while cutting the original budget by \$24 000.
- Developed skills in team management techniques, client relations, and leadership.

### Data Processing Intern

November 2020 – February 2021

McMaster University

Hamilton, ON

- Worked within the McMaster University medical department to collect, analyze, and present data on the autonomic nervous system.
- Duties included collecting and analyzing data from daily tests and performing weekly check-ins with the professor to update on progress.
- Utilized software such as MATLAB and Word to perform data analysis and present findings in a mock research paper.
- Developed skills in data analysis/collection, MATLAB, and technical writing.

## Projects

### Statistical Analysis Paper | *Statistical Analysis, Data Visualization, R*

September 2024 – October 2024

- Cleaned and analyzed a dataset describing ambulance dispatches within the city. Simulated and analyzed the data to determine the cause for delayed response times
- Created a reproducible workflow using R for data analysis and report generation.
- Developed skills in data visualization/analysis, hypothesis testing, and R

### BOLT - Geographic Information System | *C/C++, GTK, Glade*

January 2024 – April 2024

- Collaborated with a team of two engineering students to develop a graphical system similar to Google Maps for displaying electric vehicle charger locations.
- The project was crafted using C/C++ and the OpenStreetMap API, with Git handling version control. We also implemented algorithms like Dijkstra and A\* to streamline path finding, along with data structures such as Tries and sorted maps to efficiently manage our data.
- Developed skills in writing industry-grade, maintainable code, utilizing Git, and implementing advanced algorithms and data structures.

### AI - Image Colourizer | *Python, Pytorch, Machine Learning*

May 2023 – August 2023

- Collaborated within a team of 4 for a project in my Applied Fundamentals of Deep Learning course, creating an AI model to add color to grayscale images, aiding in the restoration of historical images.
- Leveraged a Generative Adversarial Network (GAN) architecture, achieving a network accuracy of 94% and a discriminator accuracy of 86%.
- Developed skills in machine learning algorithms/framework, utilizing PyTorch/TensorFlow, and NumPy/Pandas.