Shauda Islam

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EDUCATION

BASc. Computer Engineering, University of Toronto *4th Year Student*

- Relevant Courses: “Technology, Engineering, and Global Development”, “Engineering Biology”, “People Management and Organizational Behaviours”, “Engineering Strategies and Practice”
- Minor in Engineering Business with the Rotman Commerce School of Management
- Certificate in Artificial Intelligence Engineering
- University of Toronto Engineering Dean’s Merit Award (2018)

Google IT Support Professional Certificate, Coursera *Jan 2021*

PROFESSIONAL SKILLS

Languages: C++, C, Python (including PyTorch, NumPy), Java, MATLAB, , HTML, CSS, JS, R, SQL(basic)
Other Technical Skills: Quartus Prime, Git, Microsoft Office

RELEVANT EXPERIENCES

Agile Software Developer, 407 ETR *May 2022 - Current*

- Developed features using JS to improve the user experience of the 407 ETR mobile app which is used by over 50,000 customers on android and iOS
- Developed features using HTML, CSS, and JS to improve the user experience of the 407 ETR website which is used by over 7,000,000 customers
- Actively participated in project MOSAIC, a significant project involving 10 IT teams, which involved shifting the over 8,000,000 customer user base from PeopleSoft to SAP

R & D: Test Track Team Member, University of Toronto Hyperloop Team (UTHT) *July 2020 - May 2021*

- Conducted research on state of the art test track systems and utilized the research to determine requirements and constraints for our design given the needs of the system we were building

PROJECTS

Greyscale Colourizer *June 2021 - Aug 2021*

- Developed a machine learning application to reliably add colour to greyscale images
- Utilized **PyTorch** to augment data and develop and train a deep CNN model which was comprised of convolutional and normalization layers, and residual units

Geographic Interface System (GIS) *Jan 2021 - Apr 2021*

- Developed a GIS to visualize and solve travel and optimization problems in maps of various cities
- Utilized an **open source widget toolkit** to build GUI elements, **C++** for backend support, and **Git** version control. Some GUI elements that were implemented include various buttons (display points of interest / highlight major roads) and search bar (to find an intersection / shortest path)
- Optimized delivery routes by altering Dijkstra algorithm to have multi-start multi-destination