

SHAIBAL MUHTADEE

Computer Engineering | University of Toronto

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EDUCATION

Bachelor of Applied Science, Computer Engineering (Co-op)

University of Toronto

📅 September 2019 - April 2024

Relevant Courses: C, C++, Software Communication and Design, Algorithms and Data Structures, Software Engineering, Operating Systems, Computer Networks, Databases, Digital Systems, Computer Organization with Verilog and Assembly

Relevant Extra-Curriculars: UTMIST (Machine Intelligence Student Team)

TECHNICAL SKILLS

Languages: C, C++, Python, JavaScript, HTML, CSS, Java, ARMv7 Assembly, Verilog, MATLAB

Technologies: Git, SQL, Linux, React, Flask, Jest, Firebase, GraphQL, PyTorch, TensorFlow, Arduino

PROJECTS

Portfolio Website — shaibalmuhtadee.com

📅 May 2022 – June 2022

📍 Toronto, ON

- Created a responsive portfolio website with **React** and **TailwindCSS** to showcase my personal projects
- Utilized **TypeScript** and **React Hooks** to implement two themes and various interactive UI elements
- Leveraged the **NextJS** framework to improve **SEO** and simultaneously decrease site load times by **150%**

ChromaMap

📅 January 2022 – April 2022

📍 Toronto, ON

- Designed and created a **Geographic Information System** mapping software using **C++** and the **OpenStreetMap API**
- Implemented **Dijkstra algorithm** and **A* pathfinding heuristics** to solve a modified travelling salesman problem
- Improved browse and load times by over **300%** by developing a **Level of Detail** tiling scheme for the map
- Optimized application speed using code visualization, **stack trace** and **flame graphs** to multi-thread parts of the code base

ARBIS

📅 January 2018 – June 2018

📍 Toronto, ON

- Designed a website using **HTML**, **CSS**, and **JavaScript** to administrate room bookings for teachers within a high school
- Leveraged **PHP** and **AJAX** to asynchronously update data with the server, improving user satisfaction by **100%**
- Used **MySQL** to securely store and update hundreds of records of time sensitive room booking data in a **database**

EXPERIENCE

Classroom Ambassador

University of Toronto

📅 September 2022 – April 2023

📍 Toronto, ON

- Assisted and educated instructors with delivering in person and online classroom lectures and tutorials
- Built and ensured the operation of Intel Crestron teaching stations and various streaming and audio equipment
- Organized and monitored the information technology support of various classrooms throughout the university

Prep Supervisor

Dice

📅 June 2022 – August 2022

📍 Toronto, ON

- Kept track and informed of food quantities and quality in prep, on the line, and in holding
- Improved food prep speeds by 100% by implementing and teaching new cooking methods
- Managed people, prep sheets, and monitored daily food production and inventory in a timely manner