

# Maaz Qureshi

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## 🎓 Education

### University of Toronto

Bachelor of Computer Engineering

2019 – 2024 | Canada

## 📁 Professional Experience

### Fakeeh University Hospital

Network and Security Engineering Intern

May 2023 – Jul 2023 | Dubai, U.A.E

- Gained experience working with a wide suite of network and cyber-security tools and programs such as CISCO Prime Infrastructure, Senhasegura, Kaspersky Security, Forcepoint DLP and Fortiguard

### Advanced Micro Devices (AMD), Inc.

Software Development Engineering

May 2022 – Apr 2023 | Markham, Canada

- Developed Radeon Gaming Software and AMD Link with C++ and QML
- Worked on feature development, game streaming, interfacing with drivers for graphical & display tuning, localization, analytics tracking and UI

### e& Enterprise

Network Engineering Internship

Jun 2021 – Aug 2021 | Dubai, U.A.E

- Gained technical and practical networking knowledge by configuring routers and switches in Cisco IOS

## 🧠 Skills

C/C++	Python	JavaScript	HTML/CSS
SQL	QML	Verilog	ARM Assembly
MATLAB	Cisco IOS	Cinema 4D/Blender	
Video/Photo Editing	Electronics		

## 🌐 Languages

English • Hindi

## 📁 Projects

### LoRa sensor network for monitoring soil quality (IoT)

Sep 2023 – present

- Integrating off the shelf hardware (sensors, pump, ESP32 microcontroller) and software libraries (OneWire, Arduino, React) with the proprietary CottonCandy IoT network hardware
- Developing interfaces between the sensors, actuators and CottonCandy network
- Building cloud infrastructure from existing components (AWS RDS, AWS Lambda, AWS IoT) to transmit data on to an interactive web dashboard

### SPARK Design Club Displays

C/C++, Python, Electronics

2022 – present

- Designing PCBs and creating arcade games by programming microcontrollers to interface with assorted modules/components

### Circuit Component Classifier AI Model

Python

2022

- Machine learning model to detect and classify circuit components

### Chat Room Server (Networks)

C

2022

- Multi-user chat room created using sockets

### Interactive City Map

C++

2021

- Rendered city map using EZGL graphics API and OpenStreetMap data along with UI design in Glade.
- Implemented A\* path searching algorithm for navigation with simulated annealing, 2-Opt and Dijkstra's multi destination to create efficient delivery routes for couriers.

### Candy Crush Game

C, ARM Assembly, DE1-SoC

2021