

# HARSHA KEERTHAN MUTHU KRISHNAN

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## EXPERIENCE

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### MediaTek Full Stack Developer

8 months — May 2023 - Dec 2023

- Developed internal websites and intranet interfaces to streamline communication and track design changes by leveraging Content Management Systems (CMS).
- Created automation scripts to enhance productivity in chip design workflow by utilizing REST API.
- Integrated SSL encryption to websites providing maximum security for users.
- [Tech Stack: Python, SQL, PHP, HTML, CSS, JS, Drupal, Postman, RESTful & JSON API, React, Express & NodeJS](#)

### Continental Automotive Embedded Software Engineering Intern

4 months — May 2022 - Aug 2022

- Engineered communication between firmware and sensors by implementing UART interface to reduced failure rates to near zero using Python Scripts. Demonstrated to Continental's Business Unit and software was pushed into production and marketed.
- Used 3D motion technology to capture driver's motions as machine learning data. Stored it in mongodb using mqtt.
- [Tech Stack: Python, C++, MQTT, CMake, ECal](#)

## PROJECTS

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### PopTrade

- Website developed to facilitate a web-based consumer marketplace for buying/selling products.
- [HTML, CSS, JavaScript, Flask, Python](#)

### Portfolio Website

- A portfolio website developed using Next.js, Tailwind CSS, and Framer Motion.
- [NextJS, React, TailwindCSS, Framer Motion, Resend, Vercel](#)

### MovieStop Database

- Maintained a backend database of movies and implemented queries for users to parse through.
- [MySQL, MongoDB, Datagrip](#)

### Transport Schedule Program

- Developed a systematic scheduling program with user interface. Collaborated with team to produce a scheduling system that simulates a solution for bus bunching.
- [C++](#)

### Data Analysis

- Analyzed dataset of Bus drivers to compute a safety score by programming on python. Represented statistics using data libraries like plotly and dash framework. Proved as a reliable theoretical case to be used as a real-life application.
- [Python, Dash, plotly](#)

### SITAtlas — In Development

- Developed a web-based map to address Singapore Institute of Technology's new campus navigation challenges, providing a detailed interactive map for effective real-time orientation.
- [NextJS, NodeJS, MongoDB, Mapbox, Payload CMS, NGINX, Docker, DigitalOcean](#)

## EDUCATION

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### Singapore Institute of Technology

B.Eng with Honours in Computer Engineering

Specialisation in Intelligent Transportation Systems (Telematics)

[GPA: 4.48](#) — [CGPA: 4.59](#)

Sept 2021 - Sept 2024

## SKILLS

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Python, C++, Javascript, HTML, CSS, Tailwind CSS, PHP, MySQL, React, Node.js, CMS, NextJS, MongoDB, Docker, NGINX

## CERTIFICATIONS

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### Google Specializations

Data Analytics, IT Automation with Python, IT Support Professional 

### Cloud

Google Qwiklab Badge: Create and Manage Cloud Resources (GCP & Kubernetes)

### Leadership

Master Class Management: Leadership Management

### Student

Record Of Achievement in completing and Maths & Physics Quest