

# Vaishvik Maisuria

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## EDUCATION

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### University of Toronto

Sept 2016 – Jun 2021

*HBSc. in Computer Science, Math*

GPA: 3.94/4.00

- **Accomplishments:** AWS Certified Cloud Practitioner, 1<sup>st</sup> Place Winner of UofT Hacks (2018)
- **Languages & Frameworks:** Python, JavaScript, Java, C, PHP, Go, Typescript, Express, React, Node
- **Other:** SQL, MongoDB, AWS, Jenkins, Kubernetes, Git, Bash Scripts, Agile, Docker, Redis, Cassandra

## WORK EXPERIENCE

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### Moneris

May 2019 – Sept 2020

*Software Engineer Intern*

*Toronto, ON*

- Designed and implemented a new frontend for the iOS/Android payment app with **Cordova**.
- Created **SQL** queries with secure API routes using **PHP** to retrieve sales and announcement data.
- Created the sales dashboard and a QR-code scanner for payment terminals using **React Native** with **Hooks**.
- Developed containerization of the React Native app with **Docker** and **Makefile** for easier collaboration.
- Implemented **unit tests** for a React Native app by mocking functions with **Jest** and **Enzyme**.
- Designed the UI and created the **Sitecore** template for a website code builder.

### University of Toronto

*Teaching Assistant for [CSC108\(4X\)](#), [CSC290\(2X\)](#), [CSC301](#)*

Jan 2018 – May 2021

- Illustrated simple analogies to explain concepts such as OOP, UML, design patterns and time/space complexity.
- Provided technical guidance for multiple full stack projects through a 4-month scrum development cycle.

*Research Assistant – Enhance UAM to Process DDL and ERD*

Sept 2020 – May 2021

- Designed **Dockerized** microservices with **Node** and **Flask** leading to a serverless deployment of the system.
- Refactored and expanded on a tightly coupled codebase into a loosely coupled **object-oriented** codebase using design patterns like **Singleton** and **Factory**.
- Built an authentication UI using **React** with **Hooks**, implemented secure API routes using **Passport.JS JWT** and university **shibboleth** to handle user authentication.

*Research Assistant – PiazzaBot and Discussion Board Analytics ([Published Paper](#))*

May 2020 – Sept 2020

- Created unsupervised models like **k-means** to help select teaching assistants from class contributions.
- Researched and optimized a **neural network** to identify the similarity between two sentences.
- Identified **Pearson**, **Spearman**, and **Kendall** correlation between student data utilizing **Pandas**.

### Naman Electric

May 2018 – Sept 2018

*Full Stack Engineer*

*Mississauga, ON*

- Designed and developed a responsive company website using **HTML**, **CSS**, and **JS**. [namanelectric.ca](http://namanelectric.ca)
- Implemented and designed **RESTful** API routes to handle client information in **MongoDB** for reservation.

## PERSONAL PROJECTS

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### URL Shortener: Scalable App -

- Designed a horizontal scaling distributed architecture with **Docker Swarm**, **Cassandra** and **Redis** clusters.
- Implemented orchestration and full system monitoring through **Bash Scripting** and **Python**.

### QuickHelp: Community Safety App -

- Worked in a **scrum** environment to build a native **Android** app using **Java**, **Express**, **MongoDB**, and **Node**.
- Implemented the **Google Cloud Geo-location API** to display distress signals and implemented a **Haversine algorithm** to calculate the nearest available doctor.
- Implemented a secure login and registration with **Passport.JS JSON Web Token** authorization.