Vaishvik Maisuria

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EDUCATION

University of Toronto   **Sept 2016 – Jun 2021**
HBSc. in Computer Science, Math   **GPA: 3.67/4.00**
- **Accomplishments:** AWS Certified Cloud Practitioner, 1st Place Winner of UofT Hacks (2018)
- **Languages & Frameworks:** Python, JavaScript, Java, C, PHP, Go, Typescript, Express, React, Flask
- **Other:** SQL, MongoDB, AWS, Google Cloud, Git, Shell Scripting, Agile, Docker, Redis, Cassandra

WORK EXPERIENCE

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]()
- Implemented and designed **RESTful** API routes to handle client information in **MongoDB** for reservation.

PERSONAL PROJECTS

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.