

# Keerthan Devera

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## Education

**York University**  
Honours Bachelor of Science in Computer Science

Sep. 2022 - Dec. 2027  
Toronto, Ontario

## Professional Experience

### STEM Education Specialist

Science Engagement Program

May 2023 – August 2024

Toronto, Ontario

- Architected and led multifaceted engineering projects, implementing physics simulations using **Python** and **MATLAB** to model structural integrity in practical application of engineering principles.
- Developed and delivered comprehensive coding curriculum for grades 7-12, **web development (HTML5, CSS3, JavaScript)**, **Object-Oriented Programming in Java, Python**, and introductory **C, C#** for **Arduino** projects.

### Cloud Computing Intern

Mashreq

May 2020 – Aug. 2020

Dubai, UAE

- Contributed to the development and optimization of the Mashreq-Neo App, implementing responsive design principles and integrating **RESTful APIs** to enhance user experience and functionality.
- Conducted comprehensive research on emerging **cloud computing trends, serverless architectures (AWS Lambda, Azure Functions)**, presenting findings to improve the company's cloud infrastructure.
- Collaborated with cross-functional teams to develop and implement effective **cloud migration strategies**, resulting in a **20% reduction in operational costs**.

## Projects

### Hack the Valley Winner: Eco-Map Project | *GPT API, Google Maps API, Node.js, Express.js, MongoDB*

- Developed a responsive customer service A.I. using **OpenAI's GPT API**, using **Node.js** and **Express.js** for the environment, providing real-time assistance with natural language responses. Implemented **MongoDB** for efficient data storage and management of user data, locations, and queries.

### Blockchain Association: YorkU Blog | *TypeScript.ts, React.js, HTML, PostgreSQL, Figma, React*

- Developed a **blog platform** for the **Blockchain Association at York University**, focusing on university-related blockchain issues and up-to-date university newsletters.
- Utilized **TypeScript**, **Tailwind CSS**, **HTML**, and **PostgreSQL** and **React DOM** for server side rendering. With the help these we ensured scalable and responsive web design.

### UNHacks Winner: Financial Support APP | *JavaScript, PostgreSQL, Docker*

- Collaborated to compile a directory of local and **Software** businesses, helping users make informed spending choices, particularly for student essentials.
- Using **JavaScript** we made the frontend and made a **PostgreSQL server**, communicated with **JavaScript** using **Node.js** and **Express.js** and made a container to and run it on **Docker**

### E-Commerce Website | *HTML, TypeScript, JavaScript, MongoDB, AWS*

- Developed an e-commerce platform for ordering and showcasing products from businesses. The front end is built with **HTML**, **CSS**, **JavaScript**, while **Node.js** connects to a **MongoDB** database. Authentication is handled through **OAuth2.0** and **OIDC**, alongside **Google Sign-In** for user registration and login. Using **RESTful API** routing, to handle the actions

### Investment Tracker | *React.js, Redux, Node.js, MongoDB*

- Developed an investment tracker using **React.js** and **Redux**, enabling users to simulate investments with fake money and track portfolio performance in real time. Incorporated dynamic market data to allow users to practice investment strategies and analyze trends without financial risk.
- Integrated **Node.js** for backend logic and **MongoDB** to securely store and retrieve user portfolios, historical data, and simulated transactions.

## Technical Skills

**Languages:** Python, JavaScript, TypeScript, HTML/CSS, Java, C, C++, C#, Flask, Angular  
**Developer Tools:** MongoDB, React.js, Node.js, PostgreSQL, JUnit, Git, Linux