SAYURU SAMARAWICKRAMA

Full Stack Web Developer / Coding Instructor /Data Analysis / Data Science – ML / Intern

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PROFILE SUMMARY:

I am a highly motivated Computer Science undergraduate with a solid foundation in software development, programming,and data analysis. Skilled in multiple programming languages, including Python, Java, C++, and JavaScript, I have hands-on experience in web development, mobile app development, and database management using tools like Firebase and MySQL.I'm skilled in using frameworks such as React Native and Expo to create user-friendly applications and build algorithms that improve user experiences. Additionally, I have solid experience with data analysis tools like Excel, Power BI, and Tableau.

Skilled at working in both a group and individual setting as well as a fast learner on new technologies. My involvement in volunteer work has sharpened my communication and organization skills. I am eager to apply my academic knowledge to contribute to the upcoming projects.

EDUCATION

York University | B.Sc Computer Science (Special Hons) | Toronto, ON   **2021-2026**

Woburn Collegiate Institute | High School Diploma| Toronto, ON   **2018-2021**

Relevant Coursework:

Web Design & Development	User Interface Design (UI/UX)	Advance OOP-Java
Build ECommerce Systems	AI and Logic Programming	Software Design
Software Design	Design /Analysis of Algorithms	Software Tools
Computer Organization	Data Structures	Mobile Computing

RELEVANT EXPERIENCE

Code Ninjas Scarborough | Lead Instructor & Code Tutor | Toronto, ON August 2024 – Present

* Mentor students in coding and robotics, teaching languages such as Scratch, Python, C# and JavaScript
* Design and developed curricula for building games, apps, and robots, fostering problem-solving and critical thinking skills.
* Coordinate and participate in LEGO robotics competitions
* Train and guide junior instructors to maintain high teaching standards

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, Javascript, Assembly code, C#

Front End Web Development: HTML 5.0, CSS3.0, JavaScript (ES6), React 18.0, Next Js

Backend Web Development – Node JS, Express JS , Routing, Rest API, PostMan

Software Tools: Git, GitHub, VS Code, Visual Studio,Android Studio

Databases : MySQL, Oracle Express, Firebase, MongoDB, SQL

Analytical Tools: Excel, Power BI, Power Query, Tableau

AI and Cloud Computing: Microsoft Azure, AWS Cloud services (SageMaker,Bedrock)

PROJECTS :

E-Commerce Web Application (Full-Stack) | React, Javascript, CSS Node.js, MongoDB,Express – Course Project   2025W

- Developed a responsive full stack e-commerce web application using React, Node.js, Express, and JSON (future migration to MongoDB).
- Designed professional frontend layouts with React, HTML, CSS, and custom components; wireframes created using Figma.
- Implemented MVC architecture for scalability and clean code structure.
- Built a shopping cart with add, update, and delete functionality, along with a detailed product page.
- Created an admin panel for managing products and inventory.
- Planned future enhancements: payment gateway integration, order invoicing, MongoDB migration, and JWT-based authentication.

Full Stack Web Application (Camera Shop) | React 18.0, Javascript, CSS, Node.js, MongoDB, Express, Redux ,Bootstrap --2024/2025W

- Developed a responsive full-stack e-commerce web application using React 18, JavaScript (ES6), Node.js, and Express.js, implementing JWT authentication.
- Built a secure backend with Node.js and Express, including API endpoints, routing, and middleware for enhanced security, encryption using bcrypt, and image uploads via Multer.
- Designed the application structure using the Model-View-Controller (MVC) architecture
- Developed a fully functional shopping cart with add, update, and delete features, complemented by a detailed product page.
- Created an Admin Portal for product management, order handling, and user

GitHub Link : https://github.com/SayuruDev/eCommShop

Full Stack Web Application (Fashion Shop) | React 18.0, Javascript, CSS, Node.js, MongoDB, Express, Redux ,Tailwind   *2025W*

- Build a Full-Stack Application: Develop a complete e-commerce website using the MERN stack.
- Implement authentication, payments, real-time features, and APIs
- Implement Advanced E-commerce Features: Create category filtering, color selection, pricing filters, and an efficient shopping cart with calculation capabilitie
- Integrate Payment Systems: Set up Stripe for secure online payments and handle order tracking with status updates.
- Develop User Dashboards: Design a user dashboard where customers can view orders, payment history, submit reviews, and update profiles.
- Create an Admin Dashboard: Build a fully functional admin panel to manage inventory, products, orders, and users, including the ability to upload images (using Cloudinary).
- Secure Applications: Implement authentication and authorization using JWT and password hashing with bcrypt, ensuring data security.

GitHub Link - https://github.com/SayuruDev/MERN-Cloths

CampusLink App Development | React Native, Firebase, Expo and Python   *Sep 2024*

- Developed a cross-platform web application using Expo to facilitate college students' connections by matching them based on overlapping free time and shared interests.

- Implemented a dynamic front-end with React Native, leveraging Firebase for seamless real-time data synchronization and user management.

- Designed a personalized matching algorithm to optimize user experience and improve connection relevance.

Diet and Exercise Journal Application | MySQL, Java, Structural Design Patterns   2023

- Developed a comprehensive application to help users log and track their daily diet and exercise routines.

- Utilized MySQL for efficient data management and storage, integrating data from the Canadian Nutrient File (CNF) for accurate nutritional information.

- Implemented a BMR calculator and exercise intensity estimator to provide users with personalized insights into their fitness progress.

- Enabled weight loss tracking by correlating diet and exercise data with the Canada Food Guide, ensuring informed nutrition choices.

- Incorporated data visualization tools, allowing users to monitor their intake, exercise, and progress over time with interactive graphs and charts.

EXTRACURRICULAR / CERTIFICATIONS

AWS AI Practitioner AIF-C01   **-In Progress**