SACHITH ARACH

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SKILLS

Languages	Python, JavaScript, Java
Frameworks	Node.js, Express.js, React.js, EJS, JQuery
Libraries	NumPy
Databases	PostgreSQL
Web Technologies	HTML, CSS, SASS, Bootstrap
Tools	Git/GitHub, Linux, Bash, REST API, HTTP Protocols, CRUD, Docker
Programming Concepts	Object-Oriented Programming (OOP), Data Structures, Algorithms, Testing
Additional Skills	API, JSON

EDUCATION

BEng (Hons) Computer Engineering Completed Dec, 2023
York University

Ontario Secondary School Diploma 2017
Victoria Park Collegiate Institute

- Ontario Scholar

PROJECTS

Academic Projects

- **Wifi Indoor Localization (Capstone Project)**
Sep 2022 - Apr 2023
  - Developed a real-time platform to locate unused computers in a building using **Raspberry Pi 4** and **Arduino**.
  - Led the design and implementation of a **Python** and **NumPy**-based algorithm for accurate indoor localization, leveraging **CSI data analysis**.
  - Contributed to front-end and back-end development using **Wix**, and verified technology performance through extensive **signal strength testing**.

- **Notifier App Design**
Jan 2023 - Apr 2023
  - Led a team in developing a mobile app, focusing on **team leadership** and **project management skills**.
  - Directed the creation of an **interactive prototype**, emphasizing skills in **UI/UX design**, **front-end design**, and prototyping ensuring **intuitive navigation**, and a **responsive interface**.

Self-Directed Projects

- **SachithArach Portfolio**
Dec 2023 - Jan 2023
  - Developed a personal portfolio and blog using **HTML**, **JavaScript**, **React**, and **SCSS**.
  - Deployed quickly using React gh-page for efficient hosting.
  - The site showcases various projects and skills, providing potential employers with a thorough understanding of my capabilities.

- **User Authentication System**
  Dec 2023 - Jan 2024

  - Developed a login and registration application using **SQL**, **HTML**, **CSS**, **EJS**, and **JS**.

  - Integrated **Google OAuth** for a streamlined and expedited login/registration process.

  - Implemented secure cookie-based sessions, allowing users to navigate the main page for up to 7 days without re-login.

  - Utilized **PostgreSQL** for secure user data storage, including emails and passwords.

  - Implemented **bcrypt** for password hashing with multiple salt rounds, ensuring robust security for user passwords.

- **Book Manager: Family Library**
  Dec 2023 - Dec 2023

  - Developed a dynamic web-based family library application using **PostgreSQL, HTML, SQL, CSS, and JavaScript**.

  - Implemented **CRUD** operations, **HTTP protocols**, and **REST API** principles for seamless user interactions and data management.

  - Leveraged **one-to-one connections** in the database, resulting in increased data organization and retrieval efficiency by **20%**.

- **Real-Time Weather Information Web Application**
  Dec 2023 - Dec 2023

  - Integrated the **Weatherbit API** to fetch accurate, real-time weather data, following **HTTP protocols** for secure and efficient communication.

  - Implemented **REST API** principles for seamless data exchange and **CRUD** operations for effective management of weather data.

  - Utilized **Axios** for efficient API requests and implemented **Node.js** with **Express** and **EJS** for robust backend operations.

  - Significantly increased user engagement by providing timely and accurate weather updates, leading to a **30%** increase in data usage.

- **MyBlog**
  Dec 2023 - Dec 2023

  - Developed a dynamic blog post website, allowing users to create, view, edit, and delete blog posts, using **EJS** and **JavaScript**.

  - Leveraged **Express.js** with **Node.js** for robust back-end management, seamlessly integrating **server-side rendering** and **database interactions**.