NETHMA DE SILVA

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EDUCATION

IIT/UNIVERSITY OF WESTMINSTER   Expected July 2025
Bachelor of Science(Hons) - Computer Science;
Relevant Coursework : OOP, Databases, Data structures and Algorithms, Server Side Programming

EXPERIENCE

Full stack developer @ Bynery (Startup)   April 2024 - September 2024
- Created the official website for Bynery Utilizing **Next.js, TypeScript, Tailwind CSS,** and **Spline.**
- Managed and implemented advanced animations to enhance the user experience.
- Worked with a client to integrate temperature change data of coral reefs onto an interactive Maldives map that visualizes coral reef bleaching over several years using **HTML, CSS, JavaScript, Flask (Python), PostgreSQL, and Neon.**
- Cleaned and processed CSV data using **pandas** to ensure accurate data representation.
- Developed an AI-driven backend system using **FastAPI, CrewAI** to automatically generate educational flashcards and quizzes from study notes, significantly reducing content creation time.

PROJECTS

Wildlife Connect - Wildlife conservation social media app - [FrontendGithub, BackendGithub](#)
- Led a team of 5 to develop a social media mobile application using **Flutter** and **Dart** for wildlife conservation in Sri Lanka.
- The application leverages **Machine learning** to identify wildlife species from user-uploaded images resulting in a 90% accuracy rate and provides detailed species profiles.
- Created the backend using **NodeJs, ExpressJS** with **MongoDB** and **AWS s3** databases**.**
- Set up authentication and password encryption of users using **bcryptjs**.
- Implemented the **CI CD** pipeline and deployed the app on the Play Store for test users.
- Hosted the backend on **Google Cloud Run** and **Render.**

PingPals - Event Notification app - (Currently in development)
- Designing and building a mobile application aimed at simplifying event creation and management by allowing users to notify selected friends of events with a single action.
- Leveraging **Firebase** for real-time data synchronization, ensuring seamless notifications and status updates across devices.
- Developing a backend system using **Spring Boot and MongoDB** to handle user authentication, friend list management, and event scheduling, ensuring secure and efficient data handling.
- Implementing a notification system that allows users to send quick responses, track attendees, and receive real-time event status updates.
- Creating an intuitive UI in **Flutter**, focusing on responsiveness and ease of use to deliver a smooth user experience across different devices.

SKILLS

Programming: Java, Python, Javascript, Typescript, Dart, HTML, CSS, SQL
Technologies: ReactJS, NextJS, TailwindCSS, MUI, NodeJS, ExpressJS, PHP, Flask, Flutter, Java Swing, Firebase
Database: PostgreSQL, MongoDB, MySQL, AWS s3,
Tech: Git, Postman, VSCode, IntelliJ, Eclipse, Neon, Render, Google Cloud Run

CERTIFICATIONS

- **Udemy - Master the Coding interview - Data Structures and Algorithms.**
- **Udemy - The Complete 2023 Web Development Bootcamp.**
- **Udemy - The Complete Flutter bootcamp.**
- **Cambridge - Advanced Levels.**
- **Cambridge - Ordinary Levels.**