Vishmi Bulathsinhala

+94 71 176 6315 | vishmibulathsinhala@gmail.com

GitHub: vishmibulathsinhala | LinkedIn: vishmi-bulathsinhala | Portfolio | Medium: @vishmibulathsinhala

Summary

Information Technology undergraduate at the University of Moratuwa with experience building full-stack web applications and AWS serverless solutions through academic, industry-collaborative, and personal projects. Passionate about software engineering and development, with a growing interest in cloud technologies and data science, and strong problem-solving, teamwork, and communication skills. Seeking an internship opportunity to contribute to scalable, real-world software systems.

Education

B.Sc. (Hons) in Information Technology 2024 - present
Faculty of Information Technology ,University of Moratuwa (CGPA 3.6/4.0)

Data Science with Python – Training Course 2025
University of Colombo School of Computing

GCE Advanced Level 2022
R/Sivali Central College, Ratnapura
Chemistry – A, Combined Maths – B, Physics – B (Z-score: 1.569)

Projects

Enlear HRMS – Cloud-Based Human Resource Management System Oct 2025 - Aug 2026

Second Year Software Project | Group Project | Industry Collaboration with Enlear (Pvt) Ltd

- Leave Management – Developed end-to-end leave workflows across Admin, Manager, and Employee roles, including leave policy configurations, balance tracking, cancellation flows, manager review/approval processes, and Compensatory Off leave integration.
- Interactive Calendar & Holiday Sync – Built responsive calendar views across all dashboards enabling direct leave requests from grid dates, alongside automated Sri Lankan public holiday synchronization via AWS Lambda.
- Google Calendar Synchronization – Implemented Google Calendar integration with automatic two-way synchronization for approved leave requests as well as company event creation, updates, and deletions.

Technologies Used: Next.js (App Router), TypeScript, CSS Modules, AWS Amplify, AppSync, DynamoDB, AWS Lambda, AWS Cognito, Google Calendar API, FullCalendar, Vitest.

Slice of Heaven – Full-Stack E-commerce Platform Frontend Backend Oct 2025

Group Project

- Product Catalog – Designed and implemented a category-based product catalog with browsing and filtering functionality, giving customers a smooth and organized shopping experience.
- Product Management – Built the backend and admin-facing features for adding, updating, and managing product listings, including pricing, offers, and product details.
- Inventory Management – Implemented inventory tracking to reflect stock levels in real time, helping the admin manage availability and order fulfillment accurately.

Technologies Used: React.js, Node.js, Express.js, MongoDB, Cloudinary.

Lumière – Full-Stack E-commerce Platform Aug 2026 – Present

Individual Project

- Engineered a dynamic customizer allowing users to configure jewelry materials and gemstones in real-time, utilizing dynamic image mapping and client-side state management.
- Built a complete, secure checkout pipeline connecting the frontend cart state to a serverless API, safely writing relational Order and OrderItem records to a Neon PostgreSQL database via Prisma.
- Implemented secure role-based access control using NextAuth.js, creating protected middleware routes for an exclusive Admin Dashboard.

- Developed an internal Admin Portal that queries real-time database metrics to calculate total revenue, average order value , and inventory alerts.

Technologies Used: Next.js 14, React, TypeScript, TailwindCSS, PostgreSQL, Prisma ORM, NextAuth.js, Zustand

SonicGlowCube – Microcontroller-Based Application 2024 Dec - Aug 2025

Group Project

Developed an 8x8x8 LED cube using Arduino Mega and NodeMCU (ESP8266) with a web interface for real-time text and animation control. Implemented a responsive, asynchronous web server on the ESP8266 to process user inputs over Wi-Fi without interrupting the Arduino's display loop. Designed efficient algorithms to dynamically translate user-submitted strings and 3D coordinate patterns into smooth, continuous light animations.

Technologies Used: React JS, Node JS, Arduino Mega 2560, ESP8266, HTTPClient.

Read more: Designing the 8x8x8 LED Cube – How I Controlled 512 LEDs with the Multiplexing Concept (Medium)

Technical Skills

Programming & Development

Programming	Python, Java, C, JavaScript, TypeScript, PHP, Arduino
Frontend	React JS, Next.js (App Router), CSS
Backend	Node JS, GraphQL,Express
Cloud & Backend Services	AWS Amplify, AWS AppSync, AWS Lambda, Amazon Cognito, Amazon DynamoDB
Testing	Vitest
Databases	MySQL, MongoDB , PostgreSQL, DynamoDB
Data Science & ML	Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras
Tools	Git, GitHub

Professional Skills

Teamwork & Collaboration , Problem Solving , Communication Skills , Leadership

Leadership and Volunteer Experience

Vice President, INTECS – Faculty of Information Technology, University of Moratuwa 2025-Present

Director of Program and Event Coordination, IEEE WIE Student Branch, University of Moratuwa Present

Member, Rotaract Club – University of Moratuwa 2024-Present

Software Development Member , IES Labs – Faculty of Information Technology, University of Moratuwa 2025-Present

Achievements & Competitions

- Sri Lanka AI Challenge 2025 – Finalist
- Data Crunch 2025 (Organized by CSE-University of Moratuwa) – Finalist
- CTF Challenge (SLIIT Codefest) – Semi Finalist
- AlgoXplore 2024 , CTF Challenge 2024 (Medusa) , CodeRush 2022 , MoraXtreme 10.0 – Participant

Certificates

AWS Cloud Practitioner Essentials AWS

Referees

Prof.Supunmali Ahangama
PhD (NUS), BSc (Hons) IT (Moratuwa), SMIEEE
Professor,
Faculty of Information Technology
University of Moratuwa
supunmali@uom.lk

Mr.Ashan Dilsara
Software Engineer
Enlear
+94 76 335 9357
ashand@enlear.com