

Sashika Dilmina

SOFTWARE ENGINEERING UNDERGRADUATE

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Summary

I am a Software Engineering undergraduate with hands-on experience building scalable full-stack applications using MERN stack (MongoDB, Express, React, Node.js). Skilled in REST API development, database design, and cloud deployment. Experienced in developing AI-assisted features including recommendation systems and design generators. Passionate about building high-performance web systems and solving real-world problems through software engineering.

Education

BSc (Hons) in Software Engineering, CINEC Maritime Campus, Malabe

2023 Oct – Present

(Advanced Data Structures and Algorithms, Object Oriented Concepts & Programming, Mobile Computing, Advanced Web Technologies)

- **Current GPA – 3.68**
- Expected Graduation: 2027

Projects & Experience

Smart E-commerce Ecosystem | MERN Stack [GitHub](#)

Nov - 2025 (Ongoing)

- Developed a full-stack MERN e-commerce platform supporting 3 user roles (**Admin, Seller, Customer**) and REST APIs handling 50+ endpoints
- Designed and implemented RESTful APIs for products, orders, users, and analytics using Node.js, Express.js, and MongoDB.
- Integrated AI features, including an **AI-assisted T-shirt design generator** and an **AI-based product recommendation system** to enhance user personalization.
- Built a responsive frontend using React.js, Tailwind CSS, and component-based architecture, improving UI performance and maintainability.

Sniper Car Care Service POS System [GitHub](#)

Dec - 2025 (Ongoing)

- Developed an ANPR-based POS system for vehicle service centers to manage vehicle entry and service operations.
- **Automated vehicle identification, customer tracking, and service workflow management** to improve operational efficiency.
- **Integrated digital payment methods** including Apple Pay, Samsung Pay, and card payments, along with Reason8 Dubai SMS API for automated customer notifications.
- Built an admin analytics dashboard to monitor services, generate reports, and manage customer loyalty programs.

Expense Tracker Web Application | MERN Stack [GitHub](#)

June - 2025 (Completed)

- **Developed a responsive expense management web application** using React.js, Node.js, Express.js, MongoDB, and Tailwind CSS.
- **Implemented secure user authentication** using JWT with protected routes and access control.
- **Built secure CRUD APIs handling real-time financial records with JWT authentication and protected routes.**
- **Created interactive dashboards** to visualize financial data and enabled Excel report export for data analysis.

Melody Masters - Premium Music Instrument E-Commerce Platform [GitHub](#) Jan 2026 (Completed)

- **Developed a full-stack e-commerce web application** using PHP and MySQL for selling musical instruments and digital sheet music.
- **Implemented secure user authentication, shopping cart features, and checkout functionality** to support online purchases.
- **Built an admin dashboard with role-based access** to manage products, inventory, users, and orders with full CRUD operations.
- **Designed a responsive and user-friendly interface** using modern UI/UX practices and AI-assisted design tools.

Skills Summary

- Programming: Java, JavaScript, PHP, C, Python
- Frameworks & Tools: React, Node.js, Docker, Git, Postman, Selenium, JMeter, Trello
- Databases: MySQL, PostgreSQL, MongoDB
- AI/ML: Regression, Classification, Clustering, Model Evaluation, Prompt Engineering, Data Preprocessing
- Other: Firebase, Supabase, IntelliJ, VS Code,
- Soft Skills: Leadership, Analytical Thinking, Adaptability, Fast Learning, Project Management
- Core Concepts: Object-Oriented Programming (OOP), Data Structures & Algorithms, RESTful API Design

Certificates

- AI/ML Engineer - Stage 1 (**Faculty of computing | SLIIT UNI**)
- Code Rally 6.0 - Intermediate Tier (**IEEE Computer Society, IIT**)
- IDEALIZE 2024 - (**UOM**)
- AWS Fundamentals - (**Intellipaat Academy**)
- DevOps Fundamentals - (**Intellipaat Academy**)

References

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