

Sakila Lakmal

✉ sakilalakmal77@gmail.com  github.com/Sakilalakmal  portfolio
 linkedin.com/in/sakila-lakmal

Veyangoda, Sri Lanka — +94 71 220 7719

Summary

Computer Science undergraduate (BSc Hons, expected 2027) focused on **full-stack development** with strong emphasis on **backend engineering**, **microservices**, and **automation**. Experienced in building scalable systems using **event-driven architecture** and production-grade **CI/CD pipelines**.

Projects

Kada Mandiya — Event-Driven Microservices E-commerce Platform 2025 – Present

- Built using **Node.js**, **TypeScript**, **Express**, **RabbitMQ**, **SQL Server**, **Docker**, **Docker Compose**, and **Stripe**.
- Designed and implemented a **pure event-driven microservices architecture** using **RabbitMQ** for asynchronous service communication.
- Applied **database-per-service** and strict domain isolation to ensure scalability and fault isolation.
- Built a centralized **API Gateway** with **local JWT verification**, request routing, and rate limiting.
- Implemented secure payment workflows using **Stripe webhooks** with **idempotent event consumers**.
- Reduced code duplication by **~30%** by designing and maintaining a shared **internal npm registry** for common authentication, event contracts, logging, and messaging utilities.

Learning Management System (LMS) Aug 2025 – Present

- Built using **Next.js**, **TypeScript**, **PostgreSQL**, **Prisma**, **AWS S3**, **Jenkins**, and **Docker**.
- Developed a role-based LMS with secure authentication and **subscription-based** access control.
- Implemented secure media storage using **AWS S3 presigned uploads**.
- Built **CI/CD pipelines** using **Jenkins** and **Docker**, reducing manual deployment effort by **70%**.
- Implemented **drag-and-drop** course and lesson management using **dnd-kit**, maintaining correct ordering and persistence across multiple content levels.

Skills

Languages: TypeScript, JavaScript, Python, SQL, Kotlin, HTML, CSS

Backend: Node.js, Express, REST APIs

Architecture: Microservices, Event-Driven Systems

Databases: PostgreSQL, MongoDB, MySQL, SQL Server

DevOps / Tools: Docker, Docker Compose, Jenkins, GitHub Actions, AWS, Git, Postman

Education

Asia Pacific Institute of Information Technology (APIIT)

Expected 2027

BSc (Hons) in Computer Science