

Dulan Prabashwara

Software Engineering Undergraduate

Bandarawela, Sri Lanka

+94776277320

dulanprabashwara@gmail.com

LinkedIn: www.linkedin.com/in/dulan-prabashwara/

GitHub: <https://github.com/dulanprabashwara>

PROFILE SUMMARY

Information Technology undergraduate with hands-on experience developing full-stack applications using Spring Boot, React.js, Next.js, Node.js, and PostgreSQL. Experienced in REST APIs, authentication, real-time systems, database design, and Git-based development workflows. Seeking a Software Engineering Internship to apply full-stack development and problem-solving skills.

EDUCATION

BSc. in Information Technology (Hons)

University of Moratuwa, Colombo, Sri Lanka

Apr 2024 - Present

CGPA: 3.70 / 4.00

Relevant Coursework: Programming Fundamentals, Data Structures and Algorithms I & II, Object-Oriented Programming, Software Engineering, Object-Oriented Analysis and Design, Database Management Systems, Operating Systems

TECHNICAL SKILLS

- Languages: JavaScript, TypeScript, Python, Java, C, HTML, CSS
- Frontend: React.js, Next.js, Tailwind CSS, UI/UX
- Backend: Node.js, Express.js, Spring Boot, REST APIs, Socket.IO, WebSocket/STOMP
- Databases: PostgreSQL, Firebase Firestore, Supabase, Neon, Prisma ORM, MongoDB
- DevOps & Tools: Git, GitHub, GitLab, Docker, Jenkins, Heroku, Google Cloud Run
- Practices: Agile Development, Software Architecture, Debugging, REST API Design

PROJECTS

EasyBlogger - Full-Stack Blogging & Community Platform (Team Project)

Next.js, Node.js, Express.js, PostgreSQL, Prisma ORM, Socket.IO, Firebase, Stripe, Heroku

- Integrated Firebase Authentication with PostgreSQL through custom synchronization APIs for secure user identity management.
- Built a real-time messaging system using Socket.IO and REST APIs with instant delivery, presence tracking, and persistent message storage.
- Implemented Stripe payments, webhook processing, role-based premium access, and deployed separate frontend and backend services on Heroku.

MediSync - Full-Stack Digital Healthcare Management Platform

Next.js, TypeScript, Spring Boot, Java, PostgreSQL, Supabase, WebSocket/STOMP, LiveKit, Tailwind

- Developed a healthcare management platform for Patients, Doctors, Pharmacists, and Administrators with authentication, professional verification, appointment scheduling, and role-based access control.

- Implemented real-time messaging and video consultations using Spring WebSocket/STOMP and LiveKit with notifications, persistent chat, and secure short-lived access tokens.
- Built a digital prescription and pharmacy workflow with payment verification, QR-code generation, pharmacist validation, concurrency protection, and QR reuse prevention.

Ceylon News - Full-Stack Multilingual News Intelligence Platform

Next.js, TypeScript, Spring Boot, Java, Python, MongoDB, Redis, Supabase, Gemini, OpenRouter, Azure Translator

- Built a full-stack multilingual news intelligence platform with a Python-based ingestion pipeline that continuously collects and normalizes articles from multiple Sri Lankan news publishers through RSS feeds and publisher-specific extraction.
- Developed automated article processing for Sinhala/Tamil translation, AI enrichment, semantic embeddings, multi-source story clustering, personalized For You feeds, trending analysis, and grounded Ask This Story functionality.
- Implemented event-driven processing with Redis Streams, resilient consumer supervision, automatic recovery of stalled events, idempotent notification handling, and Gemini/OpenRouter/Azure fallback mechanisms for reliable large-scale article processing.

FoundIt - Full-Stack Lost & Found Platform

Next.js, TypeScript, Node.js, Express.js, PostgreSQL, Prisma ORM, Firebase, Leaflet, Google Cloud Run

- Built a full-stack lost-and-found platform with REST APIs for creating, searching, updating, and resolving reports.
- Integrated Firebase Authentication, PostgreSQL, Prisma ORM, image uploads, comments, and user-specific report management.
- Implemented Leaflet-based maps, geolocation search, filtering, nearby-item notifications, and deployment on Google Cloud Run

BotNexus - AI Character Chat Platform

Next.js, React.js, Firebase, Firestore, Tailwind CSS, OpenRouter API

- Developed an AI chatbot platform that allows users to create and interact with customizable AI personalities.
- Integrated Firebase Authentication and Firestore for user accounts, bot management, persistent chat history, and real-time synchronization.
- Built server-side API routes for OpenRouter-powered text responses, model fallback handling, and reliable message processing between users and AI characters.

Pacman Live - Microcontroller-Based Interactive LED Matrix Game

Arduino Nano, ESP32, ESP-NOW, Serial Communication, 16x16 LED Matrix, WS2812B LED Strip, Servo Motor, A4988

- Developed a Pac-Man-inspired embedded game using Arduino Nano and ESP32 with multi-level game logic, 2D-array maze navigation, ESP-NOW wireless communication, and serial communication.
- Integrated 16x16 and 8x8 LED matrices, WS2812B life indicators, servo level display, buzzer, stepper motor, and vibration feedback.

AWARDS & RECOGNITION

GenZipher Hackathon - Champions

CSSL GenZ Chapter, University of Colombo School of Computing (Team CodeStormers)

Feb 2026

MoraXtreme 10.0 Algorithmic Coding Competition - First Runners-Up

IEEE Student Branch & IEEE Computer Society, University of Moratuwa (Team Hexa 404)

Jan 2026