

Dimuthu Rathnayaka

Full-Stack Developer | AI/ML Engineer | UI/UX Designer

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PROFESSIONAL SUMMARY

Electronics and Computer Science undergraduate at the University of Kelaniya building end-to-end products across full-stack development, applied AI/ML, and UI/UX design. Experience spans the MERN, Java/Spring Boot, and PHP stacks; fine-tuning and deploying transformer-based NLP models (82% F1-score hate-speech classifier, shipped to Hugging Face); and 2+ years of freelance and volunteer design work across branding, digital marketing, and product interfaces. Comfortable owning a project from database schema and API design through to a polished, user-tested interface. Seeking an internship to apply this cross-disciplinary skill set in a real-world engineering or design team.

EDUCATION

BSc (Hons) in Electronics and Computer Science

Expected 2027

University of Kelaniya

Current GPA:3.4/4.0

EXPERIENCE

Self-Employed - Graphic Designer & Video Editor

Jan 2019 - Present

- Managing end-to-end creative projects and client communications, delivering visual content using Photoshop, Illustrator, and Premiere Pro.

Sri Lanka Rugby - Creative Designer

Nov 2025 - July 2026

- Designing promotional graphics and marketing content, ensuring brand consistency across digital and print media for national rugby tournaments.

Head of Design - Electronics & Computer Science Club, UoK

May 2024 - Apr 2025

- Led the design team of the Electronics and Computer Science Club, collaborating with the EXCO to deliver promotional materials on schedule.

PROJECT EXPERIENCE

AutoHive - Vehicle Spare Parts Management System (In Development)

Java, Spring Boot, MySQL, Next.js, Tailwind CSS, Postman | [GitHub](#)

- Designed a three-role platform architecture (Customer, Seller, Admin) using Spring Boot and Next.js, enabling customers to post product inquiries and sellers to submit competitive quotations.
- Built RESTful APIs to manage inquiry lifecycles (posted → quoted → accepted) and seller quotation submissions, with MySQL for relational data integrity across users, inquiries, and quotes.
- Implementing a matching/notification system to alert relevant sellers of new customer inquiries in real time.

Sinhala Hate Speech Detector

Python, PyTorch, Hugging Face Transformers, Gradio | [Hugging Face](#) | [GitHub](#)

- Fine-tuned XLM-RoBERTa on the SOLD (Sinhala Offensive Language Dataset) for hate-speech classification, achieving 82% F1-score.
- Built and deployed an interactive Gradio demo on Hugging Face Spaces for real-time inference on Sinhala text.
- Owned the full ML pipeline - data preprocessing, tokenization, fine-tuning, evaluation, and deployment.

AI Powered Invoice Generator

React, Vite, Node.js, Express, MongoDB, Tailwind CSS, Google AI Studio (Gemini API) | [GitHub](#)

- Developed a full-stack invoice management application (MERN) allowing freelancers and small businesses to create, manage, and export professional invoices with their own branding and business details.
- Integrated Google AI Studio (Gemini API) to enable AI prompt-based invoice generation, letting users generate a complete invoice from a natural-language description instead of manual form entry.
- Implemented secure user data storage in MongoDB, so each freelancer's business details persist across sessions for fast, repeatable invoice generation.

Café Management System

C#, .NET 8, Windows Forms, SQL Server, RDLC Reporting | [Documentation](#)

- Built a modular Windows Forms desktop application in C# and .NET 8 for café order processing, menu, and employee management, as part of a 4-member team.
- Designed a relational database schema (Items, Employees, Users) with role-based authentication (Admin/Staff) and a live dashboard summarizing daily sales and inventory.
- Generated exportable sales and stock reports (PDF) using RDLC, with input validation and error handling throughout.

Taxi Meeya – Modern Taxi Booking System

PHP, MySQL, JavaScript, HTML/CSS | [GitHub](#)

- Built a complete taxi booking platform with a responsive frontend, PHP backend, and admin dashboard for managing bookings and drivers.
- Implemented real-time booking management logic with MySQL for persistent trip, user, and driver data.

Medusa 1.0 – Website UI Design

Figma, Photoshop | [Figma](#)

- Designed a clean, modern UI for a national-level cybersecurity CTF competition website.
- Built the information architecture and visual system aligned with the event's tech branding.

Blushify Online Store

React, Vite, Bootstrap | [Live Demo](#) | [GitHub](#)

- Developed a responsive e-commerce platform for skincare/beauty products with product carousels and category-based browsing.
- Implemented seamless client-side routing using React Router for smooth navigation across product and check-out pages.

Sri Lanka vs New Zealand U85kg Rugby Tour 2026 - Marketing Design

Photoshop, Illustrator | [View Design](#)

- Designed official marketing materials - ticket flyers and match-fixtue graphics - for a national rugby tour event.

CERTIFICATES

- Foundations of User Experience (UX) Design — Google Career Certificates (May 2024)
- Start the UX Design Process: Empathize, Define, and Ideate — Google Career Certificates (July 2024)
- Figma Essential Training: The Basics — LinkedIn Learning (July 2024)
- Adobe XD for Designers — LinkedIn Learning (July 2024)
- Programming Foundations with JavaScript, HTML and CSS — Duke University (June 2024)
- Python for Beginners — Dept. of CS&E, University of Moratuwa (2025)
- AWS Educate Introduction to Cloud 101 — Amazon Web Services (Sep 2025)
- DevOps Prerequisite Course — KodeKloud (Dec 2025)

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Python, Java, C, C#, PHP, SQL, HTML, CSS
- **Frontend:** React.js, Next.js, Tailwind CSS, Bootstrap, Vite, Framer Motion, GSAP
- **Backend & APIs:** Node.js, Express.js, Spring Boot, Flask, REST APIs, JWT, .NET, Microservices
- **Databases:** MySQL, MongoDB, PostgreSQL, MS SQL Server
- **DevOps & Cloud:** Git, GitHub, Linux, Docker, AWS, Azure, DigitalOcean
- **AI & Machine Learning:** PyTorch, Scikit-learn, Pandas, NumPy, Hugging Face, LoRA, RAG Pipelines, Gradio
- **Design Tools:** Figma, Adobe XD, Photoshop, Illustrator, Premiere Pro, Canva
- **UX Process:** Wireframing, Prototyping, User Research (Empathize/Define/Ideate), Visual & Brand Design

LEADERSHIP & VOLUNTEERING

Head of Design

Electronics & Computer Science Club, UoK

May 2024 - Apr 2025

- Led the design team of the Electronics and Computer Science Club.
- Collaborated with the EXCO to deliver promotional materials on schedule.