

Shaveen Udayanga

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SUMMARY

Final-year Computer Science student at the University of Sri Jayewardenepura, looking for a six-month internship in software engineering, business analysis or product work. I founded S39 Labs and built LectureVoice, a live web app for lecturers, working agent-first: Claude Code writes the code while I decide what to build, make the design calls and test every feature by hand. I like taking an idea from a real user's problem to something people can use.

SKILLS

Languages: Python, Java, SQL, JavaScript, TypeScript (basic)

Backend: FastAPI, REST APIs, PostgreSQL, SQLAlchemy, Spring Boot

Frontend: React, Next.js, HTML, CSS

AI tools: Claude Code (daily, agent-first), Google Gemini API

Testing: Manual and exploratory testing, bug reporting, JUnit, Mockito

Product and analysis: Turning user needs into features, writing requirements, prioritising what to build next

Tools and cloud: Git, GitHub Actions, Linux servers (Ubuntu on AWS EC2), Docker, Cloudflare, Oracle Cloud

EXPERIENCE

Founder and Lead Engineer, S39 Labs

January 2026 - Present

Software studio and products · s39labs.com

Sri Lanka

LectureVoice (lecturevoice.s39labs.com)

June 2026 - Present

- A live web app that turns a lecturer's slides into a narrated video in their own cloned voice. I built it for a professor at my university and own it end to end: product decisions, architecture, build and running it. Next, it opens to lecturers, with sign-up limited to university email addresses.
- A Python (FastAPI) REST API on an Ubuntu server with a managed PostgreSQL database, a Next.js and TypeScript frontend, and the heavy voice and video work running as serverless GPU jobs. GitHub Actions tests and deploys every change.
- Each voice gets its own small fine-tuned adapter on one shared speech model, trained on cloud GPUs only when needed, so the service can stay free without paying for idle GPUs.
- Built for trust with sensitive data: cloning a voice needs explicit consent, users only ever see their own work, and deleting an account permanently removes every recording.
- Built with Claude Code as the coding agent: I made the product and design decisions and tested every feature by hand, while Claude Code wrote the code, around 250 automated tests and 20 decision records explaining each trade-off.

Client work

- Built CVAura (cvaaura.s39labs.com), a web app that reviews resumes and scores them using an LLM.
- Built a marketing website for a hospitality business (sandyedgelk.com), working directly with the client from the first brief to launch.

PROJECTS

Customizable Document Tracking System

August 2025 - November 2025

Java, Spring Boot, PostgreSQL, RabbitMQ, Docker · Service Oriented Computing module (grade A) · [GitHub](#)

Team of 3

- A web system to replace paper approval files that move from desk to desk in an office. We built it in Java and Spring Boot as separate services; I made the most commits in our team.
- I wrote most of the user and document services: login and access rules with Spring Security, the database entities, and the RabbitMQ messages one service sends the others when a document moves.
- I wrote unit tests with JUnit and Mockito, a test for the login check at the gateway, and the GitHub Actions setup that builds and tests every change.

MOMFA-LSTM: Stock Forecasting Research

June 2026 - Present

Final-year research, supervised by Prof. T.G.I. Fernando · Python, PyTorch · [GitHub](#)

- A method that chooses which market indicators to give an LSTM model and how to configure the model, together rather than one after the other. The data pipeline for 10 Colombo Stock Exchange stocks is done; experiments are in progress.

Lumina: Gesture-Controlled Robotic Lamp

December 2025 - January 2026

Python, MediaPipe, ESP32 · Human-Computer Interaction module · [GitHub](#)

- A desk lamp that responds to hand gestures: a Python program tracks the hand through a camera and tells an ESP32 board how to move the lamp. I built the hardware as well.

LEADERSHIP

- **Head of Logistics, IEEE Computer Society Student Branch Chapter, USJ** (January 2025 - January 2026): handled logistics for the chapter's events, including an AWS Sri Lanka workshop for 60+ undergraduates.
- **Vice President of Technology and Innovation, Startup Hub, USJ** (October 2024 - October 2025): led the team that planned and ran a university-wide innovation competition.
- **Rocketry Divisional Manager, SEDS J'pura** (September 2023 - September 2024): set the technical rules for the annual rocket-modelling competition and taught them in workshops.

EDUCATION

BSc (Hons) in Computer Science

June 2023 - June 2027

University of Sri Jayewardenepura, Nugegoda

- Minors: Mathematics and Physics. Selected into the Computer Science honours cohort, one of 18 students from a cohort of 120.
- Relevant coursework: Data Structures and Algorithms, Software Engineering, Database Management Systems, Service Oriented Computing, Computer Security, Machine Learning.

GCE Advanced Level, Physical Science stream

2012 - 2020

Nalanda College, Colombo 10

CERTIFICATIONS

- Machine Learning Specialization, DeepLearning.AI and Stanford University (Coursera). [Verify credential](#)
- Product Management, Great Learning Academy (September 2026). [Verify credential](#)
- Introduction to Aerospace Engineering (16.00x), MITx (edX). [Verify credential](#)

LANGUAGES

Sinhala (native), English (professional working proficiency), German (elementary, currently learning)

REFERENCES

Available on request.