



Ushan Chamod

Full-Stack Developer

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Summary

As an engineer, I'm driven by a genuine passion for solving real-world problems through thoughtful, human-centered software. I believe technology should serve people not the other way around and I strive to create solutions that are both impactful and intuitive. For me, software engineering is more than a career; it's a meaningful practice that allows me to contribute to the world with purpose. I value clarity, creativity, and collaboration, and I'm always seeking opportunities to create work that truly matters.

Technical Skills

Programming Languages : **JavaScript** • **TypeScript** • Java • Python
Frameworks/ Library/ Runtime : **Node.js** • **React.js** • **Next.js** • **Express.js** • **Nest.js** • **GSAP** • Framer Motion
Databases : **MongoDB** • **MySQL**
AI/ Automation Tools: : **Langchain** • **OpenAI API** • LangGraph • n8n
Version control tools : **Git** • **GitHub** • Bitbucket
ORMs : **Sequelize** • Drizzle • Prisma
Operating Systems : **MS Windows** • Linux (Fedora, Kali, Mint, Ubuntu)

Employment

Full Stack Developer

June 2024 – June 2025

Lavontech (PVT) LTD

- Built Inventory Management, POS, E-commerce systems, and a mobile app. Use React, Next.js, NestJS, Express, MongoDB, and MySQL.
- Focused on performance, localization, clean and reusable components.

Full Stack Developer

Jan 2024 - Apr 2024

Visionary Design Vanguard (VDV)

- Developed a venue reservation system using React, Express, and MySQL with responsive UI and REST API integration.

Full Stack Developer (Trainer)

Jan 2023 – Nov 2023

Implex Holdings (PVT) LTD

- Worked as a Junior Full Stack Developer at Implex Holdings (PVT) LTD, assisting in front-end, back-end, database, and API development while gaining hands-on industry experience.

Education

Bachelor of Software Engineering (Hons.) [Final Year]

Dec 2021 - Present

The Open University of Sri Lanka

- A comprehensive four-year program covering software engineering, programming, computer science, and quality assurance.
- Developed strong self-directed learning and communication skills through an open and distance learning model.

GCE Advanced Level

2016 - 2018

Thopawewa National School, Polonnaruwa

- Completed G.C.E. Advanced Level (A/L) examination in Biological Science stream.

Leadership & Extracurricular Activities

- Head Prefect** at Weerapura Junior School 2015
- President of Science Society** at Thopawewa National School 2019

Recent Projects

Conversational RAG Chatbot – OUSL Degree Q&A Assistant

Personal Project | Jul 2025- Present

- Built a LangChain-powered chatbot that answers student questions about the BSE degree at OUSL using Retrieval-Augmented Generation (RAG).
- Integrated OpenAI's GPT models with a persistent Chroma vector store to embed and retrieve information from PDF and text documents.
- Implemented session-based memory to maintain multi-turn conversational context per user.
- Developed a RESTful Flask backend to handle API chat requests with dynamic, context-aware answers.
- Customizable document support through a modular file structure and .env-based configuration.
- **Impact:** Delivered a backend service capable of transforming static academic documents into an interactive Q&A experience.
- **Achievement:** Successfully developed a scalable backend chatbot that automates information delivery for OUSL's BSE degree. Potentially saving hours of manual inquiry time for students and staff.

Tech: Python, LangChain, OpenAI GPT-4, ChromaDB, Flask, PyPDF, TextSplitters

OUSL Credit Calculator – Web Application

Personal Project | Mar 2025

- Built a tool to help OUSL students calculate earned credits based on complex academic requirements.
- Parses official MyOUSL Excel result sheets and filters data by Level, Credit, Year, Category, and Course Type.
- **Impact:** Reduced manual credit calculation time from 15+ mins to just 1–5 mins.
- **Achievement:** Solved a major issue faced by OUSL students with an intuitive, time-saving solution.

Tech: React.js, Node.js, Express.js, XLSX, JavaScript

BMICH Venue Reservation System

VDV | Jan – Apr 2024 | Full Stack Developer

- Developed modular UI components.
- Integrated APIs for real-time updates.
- Optimized UX for large datasets.
- **Achieved:** Improved stock accuracy and client workflow.

Tech: React.js, Express.js, MySQL, SCSS, Formik

POS System for UAE Jewelry Shop Chain

Lavontech | Oct – Dec 2024 | Frontend Developer

- Built responsive UI with React.
- Integrated REST/ GraphQL for real-time data.
- Implemented localization (English/Arabic).

Tech: React.js, REST API, GraphQL, Apollo, i18n, React Query, SCSS

Inventory Management System for Jewelry Shop Chain

Lavontech | Jun – Oct 2024 | Frontend Developer

- Developed modular UI components.
- Integrated APIs for real-time updates.
- Optimized UX for large datasets.
- **Achieved:** Improved stock accuracy and client workflow.

Tech: React.js, GraphQL, Apollo, Zustand, Formik, SCSS, GSAP

SSG Mart (E-commerce for Local Handicrafts & Foods)

OUSL | Dec 2022 – Dec 2023 | Full Stack Developer

Tech: React.js, Express.js, MySQL

- Built a platform for selling handcrafted food/ products without intermediaries.
- Helping sellers earn full profit and buyers get fair prices.
- Focused on empowering local entrepreneurs and optimizing profits.
- **Achieved:** Enabled direct sales, helping sellers earn full profit and buyers get fair prices.

Lasiru Distributors – E-commerce for Motorcycle Spare Parts

Freelance | Apr – Present 2024 | Full Stack Developer

- System design and backend development for a Sri Lankan auto parts store.
- Built fast custom search and dynamic data-fetching algorithms (view-based ranking).
- Collaborated on frontend and optimized overall system performance.

Tech: Next.js, Express.js, MySQL, Sequelize, Tailwind

Thief Detection System – Arduino Prototype

Personal Project | Sept 2022

Tech: Arduino Uno, Ultrasonic Sensor

- Designed and implemented a prototype security system using Arduino.