

JANINDU CHAMOD

UNDERGRADUATE
SOFTWARE ENGINEER

PROFILE

I am a Bachelor of Science undergraduate in Information Technology, specializing in **Software Engineering at SLIIT**. My expertise includes **Full-Stack Development, cloud technologies, AI/ML**, and modern software engineering practices, particularly with **JavaScript frameworks, mobile technologies**, and **SQL**-based systems.

Through academic projects and hands-on experience, I have developed the ability to build scalable **web applications** and user-friendly interfaces. I am proficient in modern **frameworks, object-oriented programming**, and **problem-solving** techniques. Passionate about innovation and emerging technologies, I am eager to contribute to impactful projects while continuously enhancing my technical and professional skills in the IT industry.

PROJECTS

FabricVision – AI-Driven Fabric Defect Detection & Quality Analytics System

Final year research-based intelligent fabric inspection system developed using artificial intelligence, machine learning, and fog-level computing technologies for real-time fabric defect detection and quality analysis.

Technologies

PYTHON, TENSORFLOW, YOLO, OPENCV, NEXT.JS, NODE.JS, MONGODB, RASPBERRY PI

- **Led** a team of 3 members to successfully design, develop, and deploy a the successful research project
- Developed real-time fabric inspection functionalities, including frame capture, anomaly pre-screening, and quality analytics for fabric evaluation and monitoring.

GemCraft – Full Stack Gem Learning & Management Platform

Full-stack web application developed for GemCraft Learning Center to support gem education, student collaboration, and gem-related knowledge sharing.

Technologies

NEXT.JS, NODE.JS, EXPRESS.JS, MONGODB, FIREBASE AUTHENTICATION

- Developed role-based authentication, student management, community posting, and gem exploration features with image upload and approval workflows, while designing responsive frontend interfaces and backend APIs to support efficient learning platform management.

SpendWise

SpendWise is a secure expense tracker application designed to help users effectively manage and visualize their financial data.

Technologies

REACT, TAILWIND, MONGODB, GRAPHQL, NODE.JS, EXPRESS.JS

- A modern expense tracker to manage and visualize spending with dynamic charts. Features secure authentication and responsive design for all devices.

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📍 Galle, Southern Province

🌐 <https://portfolio-janindu.vercel.app/>

🔄 <https://github.com/Janinduchamod2001425/>

🌐 <https://www.linkedin.com/in/janiduchamod/>

EDUCATION

2022 - 2026

SLIIT - MALABE, SRI LANKA

- Bachelor of Science - BS, Information Technology Specializing in Software Engineering
- Cumulative GPA: 3.25

2020 - 2021

IJSE - GALLE, SRI LANKA

- CMJD - Comprehensive Master Java Developer, Computer Software Engineering (Diploma)

SKILLS

Programming Languages

- **Java**
- **Python**
- **JavaScript**
- **TypeScript**
- **C/C++**
- **SQL**

Frontend

- **React.js**
- **Next.js**
- **Vue.js**
- **React Native**
- **Nuxt.js**
- **Flutter**
- **Tailwind CSS**

Backend

- **Node.js**
- **Express.js**
- **.NET**
- **PHP**
- **Spring Boot**
- **GraphQL (Beginning)**
- **NestJS**

AI, ML & Image Processing

- **TensorFlow**
- **OpenCV**
- **Machine Learning Basics**
- **Image Processing**
- **Ollama (LLM Integration), LangGraph**

Database Development

- **MySQL, PostgreSQL, Prisma ORM**
- **NoSQL (MongoDB, Firebase)**

Cloud

- **AWS, Docker, Kubernetes**
- **CI/CD Fundamentals**

IoT & Edge Computing

- **Raspberry Pi**

PROJECTS

TeamFlow

A full-stack team collaboration platform built for managing workspaces, projects, and tasks with secure authentication, responsive dashboards, and scalable architecture.

Technologies

Nuxt 3, Vue.js, TypeScript, NestJS, PostgreSQL, Prisma ORM, Pinia, Tailwind CSS, JWT

Built a complete authentication system, responsive dashboard, collapsible navigation, workspace management module, reusable components, and secure REST APIs.

Designed a scalable architecture for projects, tasks, Kanban boards, notifications, and team collaboration.

DevPilot

Technologies

Nuxt 4, Vue 3, NestJS, TypeScript, PostgreSQL, Prisma, Redis, BullMQ, Docker, Gemini AI

Engineered an asynchronous Git-to-Docker deployment platform using NestJS, Redis, BullMQ, PostgreSQL, and Prisma.

Automated repository cloning, project analysis, Dockerfile generation, image building, container execution, port allocation, deployment logging, and status tracking.

Built a Nuxt 4 dashboard with deployment history, logs, stop, restart, deletion, and automated Docker resource cleanup controls.

Integrated isolated Gemini-powered failure diagnosis with root-cause summaries, log evidence, recommended fixes, and confidence scores.

Book Finder

Designed to help users discover and explore books effortlessly. Leveraging the Google Books API, this application offers a seamless interface for searching, viewing, and learning more about books.

Technologies

React, Tailwind, Google Books API

A responsive book search app with detailed book information, interactive 3D models, and animations for an engaging user experience.

Minator

A admin dashboard designed for gym operations. Management of members, trainers, classes, and plans. Features include interactive data visualization.

Technologies

React, Tailwind, Firebase, Node.js, Express.js, JWT, Lottie Animations

A gym management dashboard with member, trainer, class, and plan management. Features secure authentication, data visualization, and responsive design.

PureDrops

A mobile app focused on promoting water conservation and facilitating water donations to underserved communities

Technologies

Flutter, Firebase, Figma

Led 3 members to develop a mobile app that helps users track daily water consumption, set personalized water-saving goals, and monitor progress over time.

Designed a user-friendly interface in Figma, ensuring a seamless user experience for both donors and recipients.

Integrated Firebase Authentication for secure login and user management, enabling role-based access for water donors, requesters, and trackers

PROFESSIONAL EXPERIENCE

Boron Corporation

Intern Software Engineer

Feb 2025 – Apr 2025

Participated in software development activities for 3 months.

Improved practical industry and teamwork experience.

Contributed to software engineering tasks in a professional environment.

Roles:

FULL-STACK DEVELOPER

ClouDev Technologies

Software Engineering Intern

May 2025 – Nov 2025

Completed a six-month internship.

Contributed to client-based software projects.

Worked with modern web development technologies.

Collaborated with development teams and project stakeholders.

Roles:

TEAM LEAD, SCRUM MASTER, FULL-STACK DEVELOPER

ClouDev Technologies

Full-Stack Developer - Part Time

Nov 2025 – April 2026

CERTIFICATES

FEB 2022

Diploma in Comprehensive Master Java Developer IJSE

JUL 2024

React (Basic) HackerRank

JUN 2024

React.js Essential Training LinkedIn Learning

JUL 2024

SQL (Basic) HackerRank

JUL 2024

Frontend Developer (React) HackerRank

JUL 2024

Meta Front-End Developer - React Basics Coursera

JUL 2024

Build a Google Firebase Web Application Coursera

DEC 2024

AI/ML Engineer – Stage 1 SLIIT

MAY 2026

8th International Congress on Human-Computer Interaction, Optimization and Robotic Applications (ICHORA 2026) IEEE / ICHORA 2026