

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 frame capture and anomaly pre-screening functionalities for real-time fabric inspection workflows.
- Implemented quality analytics modules for fabric quality 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 and student management functionalities.
- Implemented community posting and gem exploration features with image uploads and approval workflows.
- Designed responsive frontend interfaces and backend APIs for efficient learning platform management.

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📍 Galle, Southern Province

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

🔄 <https://github.com/Janiduchamod2001425/>

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

EDUCATION

2022 - Present

SLIIT - MALABE, SRI LANKA

- Bachelor of Science - BS, Information Technology Specializing in Software Engineering
- Cumulative GPA: 3.33

2020 - 2021

IJSE - GALLE, SRI LANKA

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

SKILLS

Programming Languages

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

Frontend

- React.js
- Angular
- React Native
- HTML5/CSS3
- Flutter
- Tailwind CSS
- UI / UX

Backend

- Node.js
- Express.js
- .Net
- PHP
- Spring Boot (Beginning)
- GraphQL (Beginning)

AI, ML & Image Processing

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

Database Development

- SQL (MySQL, SQLite)
- NoSQL (MongoDB, Firebase)

Cloud

- AWS, Docker, Kubernetes
- CI/CD Fundamentals

IoT & Edge Computing

- Raspberry Pi

PROJECTS

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.

Magic Box

Puzzle mobile game developed by using kotlin for Android devices.

Technologies

KOTLIN, ANDROID STUDIO

- Developed a puzzle mobile game from concept to deployment using Kotlin, ensuring smooth performance and responsiveness on Android devices.
- Designed the game's user interface and experience in Figma, focusing on an intuitive layout and engaging visual elements to enhance user interaction.

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

Homi

Full-stack real estate application built with React Native and powered by Expo SDK 52, designed to deliver a seamless property browsing experience. With features like Google Authentication, Dynamic Property Listings, and User Profile Management

Technologies

REACT NATIVE, TYPESCRIPT, TAILWIND, EXPO, APPWRITE

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.

CERTIFICATES

FEB 2022

Diploma in Comprehensive Master Java Developer IJSE

JUN 2024

React.js Essential Training LinkedIn Learning

JUL 2024

React (Basic) HackerRank

JUL 2024

Frontend Developer (React) HackerRank

JUL 2024

SQL (Basic) HackerRank

JUL 2024

Meta Front-End Developer - React Basics Coursera

JUL 2024

Build a Google Firebase Web Application Coursera