

# CHAMEERA CHATHURANGA

Software Engineering | Full-Stack Developer | AI & ML Enthusiast

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## SUMMARY

Undergraduate Software Engineering student specializing in Full-Stack Development and Artificial Intelligence. Strong foundation in software engineering principles, modern web technologies, and problem-solving. Motivated to learn, adapt, and contribute to real-world software solutions in a professional development environment.

## EDUCATION

### BSc (Hons) in Software Engineering, LNBTI

2023 – 2027

LNBTI Japanese IT University

- Focused on full-stack development and AI/ML technologies.
- Actively contributing to open-source projects to enhance coding and problem-solving skills.

### Advanced Level in Technology Stream

2019 – 2022

St. John's College (National School) - Panadura.

ICT -C E-Tech -C SFT -C

## SKILLS

### AI & Machine Learning

(Python, Machine Learning Fundamentals, Deep Learning (ANN, CNN), TensorFlow, NLP Basics, LLM Fundamentals, LangChain Basics)

### Programming

(Python, JavaScript, Java, C#, C++)

### Frontend Development

(React, HTML, CSS, JavaScript, Tailwind CSS)

### Backend Developer

(Node.js, Flask, PHP)

### Database Administrator (DBA)

(MySQL, PostgreSQL, MongoDB)

### Leadership & Team

### Communication skills

## LANGUAGES

English

Sinhala

## PROJECTS

### ShoeMart 🔗

09/2025 – Present

Smart Shoe Retail Management System

- **Tech Stack:** React, Node.js, Express.js, Flask (AI), SQL Server, JWT, Generative AI
- Developed a full-stack shoe retail system supporting online and in-store sales with real-time inventory synchronization
- Implemented WhatsApp-based ordering, delivery tracking, and admin dashboards with secure JWT authentication
- Built a Flask-based AI service for customer chatbot support and automatic product name & description generation

MindEmotion [↗](#)

11/2025 – 12/2025

AI-Based Mental Health Support System

**Tech Stack:** Python, Machine Learning, NLP, LLM Fundamentals, LangChain, Flask, React, Tailwind CSS

- Developed an AI-based system to analyze user emotions using sentiment analysis and NLP techniques
- Integrated a basic LLM-powered chatbot using LangChain to generate supportive, context-aware responses
- Built a full-stack web application enabling real-time interaction between users and AI models

AgroMind [↗](#)

09/2025 – 11/2025

AI-Powered Smart Agriculture System

**Tech Stack:** Python, Machine Learning, Deep Learning (CNN), Generative AI, Flask, React

- Built ML models for crop suitability prediction and harvest yield estimation (per ton)
- Implemented CNN-based plant disease detection using leaf image analysis
- Developed an agriculture-focused AI chatbot integrated into a full-stack web application

AgroConnect [↗](#)

05/2025 – 08/2025

Digital Agricultural Marketplace (MERN Stack)

- **Tech Stack:** MongoDB, Express.js, React.js, Node.js, REST APIs, JWT, RBAC
- Developed a full-stack agricultural marketplace connecting farmers, buyers, government officers, and delivery services in a single role-based system
- Implemented secure JWT authentication and role-based access control with product management, government request approvals, and delivery tracking workflows
- Designed an admin dashboard for centralized user management, product monitoring, and overall system operations

CERTIFICATIONS AND LICENSES

Artificial Intelligence & Machine Learning

SKYREK Institute

Beginners guide for Deep Learning [↗](#)

Simplilearn [↗](#)

Introduction to Large Language Models [↗](#)

Google [↗](#)

LLMs & LangChain and Workflow Design [↗](#)

Simplilearn [↗](#)

ACHIEVEMENTS

**Top 10 Finalist, Algothon Competition 2024, Organized by SLIIT**

selected among 200+ teams nationwide.

**4th Place, Algothon Competition 2025, Organized by SLIIT**

achieved top ranking out of 150+ participants.

**Participant, Algothon Xtreme 2025,**

collaborated in a 2-hour problem-solving.

Organized by the  
University of Sri  
Jayewardenepura

REFERENCES

**D B M Jayathilake**, *IT Instructor*, Lanka Nippon BizTech Institute  
mewan@edu.lnbt.lk, 0766415188

**Chobodi Padmaperuma**, *Lecturer*, Lanka Nippon BizTech Institute  
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