

# Minula Vihanga

## Software Engineering Intern

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🌐 Minula Vihanga

🐙 github.com/ADMV2001

### Summary

Third-year BSc Software Engineering undergraduate at NSBM Green University with a growing passion for full-stack development and AI-driven solutions. Experienced in academic and personal projects that combine problem-solving with practical implementation, including intelligent learning tools and multi-agent systems. A quick learner and adaptable team player, eager to apply knowledge in real-world projects, gain hands-on industry experience, and contribute meaningfully during the internship.

### Education

- **NSBM Green University - October 2023 - Present**  
BSc in Software Engineering  
Coursework: *Data Structures and Algorithms, Object-Oriented Programming, Software Engineering, Database Systems, Web Development, Mobile Application Development, AI & ML*
- **Sripalee College, Horana - 2012 - 2022**  
GCE Advanced Level in Biological Science  
GCE Ordinary Level

### Certifications

- Introduction to MERN Stack (Simplilearn) - *credential*
- Next.js (LinkedIn Learning) - *credential*
- Fundamentals of DevOps on AWS (Simplilearn) - *credential*

### Projects

#### ZenPath – Online Mental Health Support System

🐙 *GitHub Repository*

Team Lead | (May 2025)

- Engineered a full-stack telemedicine platform with role-based dashboards (Patient, Therapist, Admin), integrating real-time video therapy (Jitsi) and a secure payment system (Stripe).
- Architected a custom wallet-based billing system ("Zen Coins") to streamline prepaid transactions and built a responsive frontend with React and Tailwind CSS.
- Tech: React, Node.js, MongoDB, Stripe, Jitsi API




#### Realtime Asset Tracker - IoT Solution

🐙 *GitHub Repository*

Team Lead | (May 2025)

- Engineered a full-stack IoT system for live GPS/environmental tracking and accident detection, integrating ESP32 with multi-sensor hardware and GPRS data uplink.
- Developed a real-time React/Node.js dashboard with live maps, custom alert systems, and configurable data thresholds.
- Tech: ESP32, C++, Node.js, React, Firebase, IoT Sensors, Arduino IDE

## AI Based Projects

- **StudyMate – AI Study Companion**  *Live Application*  *GitHub Repository*  
Individual Project | (May 2025)
  - Built an AI-powered Next.js app using Google's Gemini API to generate quizzes from PDFs and summarize text.
  - Engineered customizable study tools and a responsive mobile UI with download functionality.
  - Tech: Next.js, Gemini API, Tailwind CSS, JavaScript
- **Feedback and Sentiment Analysis - Multi AI Agent System**  *GitHub Repository*  
Individual Project | (August 2025)
  - Developed a multi-agent system that auto-replies to customer reviews and visualizes sentiment trends using Kaggle datasets and LLM integration.
  - Tech: Python, LangChain, LangGraph, Groq, Kaggle, Seaborn

## Skills

- **Languages:** JavaScript, TypeScript, Python, PHP, Java, Dart, C, C#
- **Frameworks & Libraries:** Node.js, React, Next.js, Express.js, SpringBoot, Tailwind CSS
- **Databases:** MySQL, MongoDB, SSMS, Firebase
- **Mobile Application Development:** React Native, Flutter, Android SDK
- **Tools & Platforms:** VS Code, Visual Studio, IntelliJ IDEA, Apache NetBeans, Postman, Linux, Arduino IDE
- **Version Control:** Git, GitHub
- **Core Strengths:**

## References

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