CHANUKA CHANDRAYAPA

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🏠 Uduwara, 7th Mile Post, Demodara, Sri Lanka

TECHNICAL SKILLS

Programming

Python | Java | C/C++ | Arduino | JavaScript

Web/Mobile Development

HTML/CSS | React | Angular | Express | Node | Flask | Axios | Spring Boot | Flutter | Kotlin

Databases

MySQL | MongoDB | SQLite

Tools and Libraries

Jira | Figma | VS Code | Intellij

Version Control

Git | Github

LANGUAGE SKILLS

English - Working Proficiency

Sinhala - Native Proficiency

PROFILE

A motivated and adaptable individual with a passion for learning and innovation. I excel at meeting deadlines and. enthusiastic about AI and emerging tech trends, I continuously update my skills to stay ahead in the fast-evolving digital world.

EDUCATION

Undergraduate, B.Sc. Engineering (Hons) (Computer Science & Engineering)

University of Moratuwa | Sri Lanka

CGPA - 3.89   June 2021 - June 2025

Dean's list in 6 semesters | Minor in Mathematics

G.C.E Advanced Level Examination

Bandarawela Central College | Bandarawela, Sri Lanka

Physical Sciences stream   2016 - 2019

Z-Score - 2.3999

Combined Mathematics - A, Physics - A, Chemistry - A

WORK EXPERIENCE

IGT1 Lanka | POKA
Software Engineer   **July 2025 - Present**

Worked on the frontend aspects of the POKA worker platform dedicated to utilizing technology and AI towards the efficiency of workers and factories (Angular)

Teaching Assistant | UOM   **Feb 2025 - May 2025**

Worked as a Teaching Assistant for the course "Programming Languages" for the 3rd year undergraduates

WSO2 LLC
Software Engineering Intern   **Dec 2023 - May 2024**

Completed a six-month internship at the APIM team of WSO2. Implemented Throttle Policy Reset support feature for WSO2 API Manager (Java, React)

PROJECTS

Advanced Computer Vision for Satellite Imagery Analysis in Precision Agriculture 🔗

Python | | TensorFlow | QGIS | Google Earth Engine   **Ongoing**

This is my Final Year Research Project which aims to develop a CNN - LSTM model that predicts paddy yield in Sri Lanka. This utilizes Satellite imagery with ground truth variables. The main objective is to help policy makers in precision agriculture to make prior decisions to enhance paddy production based on predicted results

Throttle Policy Reset Support for WSO2 API Manager 🔗

Java | Siddhi | ReactJS | Git   **2024**

Implemented a new feature to manually reset the application level rate-limiting quota for a specific user from the developer portal. This allows application developers to give further access to their applications upon user request.

Mental Health Application – Individual Project 🔗
React JS, Python, LLMs, Express JS, MongoDB   **2024**

Implemented a unified platform to provide accessible, personalized, and secure mental health support to users, specifically tailored to the Sri Lankan context. By leveraging a microservices architecture, the platform delivers features like mood tracking, educational resources, support forums, therapist access, and AI chat assistance.

Digital Analyzer for newspaper advertisements – Group Project 🔗
ReactJS | Flask | MongoDB | NLTK   **2023**

Developed a mobile-optimized web application to read newspaper adverts, extract and categorize features using NLP, and visualize using graphs that benefit researchers and marketers to identify trends in various sales. I mainly contributed to the frontend by integrating maps, charts, data models, and the backend with experimenting techniques to extract relevant data from different input formats.

Bluetooth Messaging App – Individual Project 🔗
Kotlin | Android Studio | Gradle | SQLite   **2025**

Developed a secure peer-to-peer Bluetooth messaging application for Android that enables encrypted communication and file sharing between devices without requiring internet connectivity.

Air-Line Reservation System – Group Project 🔗
React JS | Express JS | MySQL   **2023**

Developed a ticket booking system for airlines. I mainly worked in the frontend and the database design and managed to simulate a simpler version of the real-world Air-Line reservation system

ACHIEVEMENTS

Earned placement on the Dean's List
Faculty of Engineering, University of Moratuwa, Sri Lanka
- Sem 1: **4.00** | Sem 3: **3.87** | Sem 4: **3.96** | Sem 5: **3.86** | Sem 7: **4.00** | Sem 7: **3.93**

SLIIT CODEFEST AI Sprint   **2025**
Finalist - Team PentaPower
AI Hackathon organized by SLIIT and **Sysco LABS** to develop an E-commerce platform with machine customers. (Github)

IEEEXtreme 18.0 - World Rank - 970   **2024**

µMora Mathematics competition   **2020**
Top 10 winner
Department of Electronic and Telecommunication Engineering, University of Moratuwa

Code Squad 3.0 Inter-University Programming Competition
Rank - 31 | Team - KodeBlitz   **2022**
Computer Engineering Society, Department of Computer Engineering, Faculty of Engineering, University of Sri Jayewardenapura, Sri Lanka

Tech - Triathlon 2023 by RootCode   **2023**
Participation | Team - KodeBlitz