Theshan Senanayake

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EDUCATION

B.Sc (Hons) in Information Technology,
Vavuniya Campus of University of Jaffna
2020 - 2024   GPA: 3.46/4

G.C.E O/Level and A/Level,
Bandarnayake College, Gampaha
2010 - 2018

SKILLS

BACK END DEVELOPMENT: Python | Java | PHP | C

FRONT END DEVELOPMENT: HTML | CSS | JavaScript

DATABASES: MySQL

FRAMEWORKS: Cisco IOS | Spring Boot | Laravel | .NET | React

SOFT SKILLS: Adaptability | Critical Thinking

CERTIFICATES

Introduction to Cybersecurity: Cisco

Python for Beginners: CODL of UOM

Web Design for Beginners: CODL of UOM

Learn Python from Scratch: Udemy

Android App Development: Udemy

Python Data Structures: Great Learning

SQL(Basic): Hackerrank

Java(Basic): Hackerrank

Python(Basic): Hackerrank

EXTRA CURRICULAR

Junior Treasurer
ITCS, Vavuniya Campus of University of Jaffna.
2022 - 2023

Secretary - Media Unit
Bandaranayake College, Gampaha
2016 - 2018

REFERENCES

Dr. R. Nagulan, *Senior Lecturer,*
Department of Physical Science,
Faculty of Applied Science,
University of Jaffna.
rnagulan@univ.jfn.ac.lk, +94-711071289

Mr. Sahan Bandara, *IT Project Manager,*
North Manufacturing (Pvt) Ltd.
sahan.bandara@northsails.com, +94-777162198

EXPERIENCE

Internship - Mobile App Developer,
North Manufacturing (Pvt) Ltd.
06/2024 – Present
- Built a dynamic mobile application for sail scanning using Java and OpenCV, enhancing operational efficiency.
- Delivered effective training sessions to onboard employees to the newly implemented Manufacturing Execution System (MES).
- Set up employee accounts and ID cards, granting tailored access to streamline MES usage.
- Conducted end-to-end testing of MES functionalities post-server migration, ensuring 100% system reliability.

PROJECTS

Encrypt and Decrypt 3D Medical Images, Research Project ✎
04/2024 – 08/2024
- Developed a multi-layered security algorithm in Python to encrypt and decrypt 3D DICOM and NIfTI medical images, ensuring protection of both pixel data and metadata.
- Published the research through the University Journal and presented it via impactful poster displays.

Smart Spectacle for Blind People, Final Year Group Project ✎
01/2024 – 03/2024
- Created a machine learning model to accurately identify objects and integrated it with an Arduino ESP32 Camera for real-time video analysis.
- Engineered a cost-effective assistive technology that translated identified object names into Morse code, enabling visually impaired individuals to recognize over 40 common items within real-time environments.

E-commerce Website, 3rd Year Individual Project ✎
07/2023 – 09/2023
- Initiated a robust e-commerce website for vehicle parts using Spring Boot, delivering seamless functionality and performance.
- Designed a responsive front-end with HTML, CSS, and JavaScript, and integrated MySQL for efficient database management.

Online Exam Entry Form, 3rd Year Group Project ✎
01/2023 – 03/2023
- Built a comprehensive online exam entry system using Laravel, replacing traditional physical form filling with a fully digital process.
- Crafted a dynamic and responsive front-end using HTML, CSS, and JavaScript, seamlessly integrated with a MySQL database to ensure secure and efficient data management.
- Implemented multi-level login access for students, lecturers, heads of departments, and deans, ensuring a streamlined and user-friendly experience.

Complete Website Front-End, 1st Year Individual Project ✎
05/2021 – 08/2021
- Designed and developed a fully responsive front-end interface using HTML, CSS ensuring seamless usability across all devices.

COURSEWORK

Data Structures and Algorithm | Data Science | Machine Learning | Computer Security | Database Management | Networking and Mobile Communication | Computer Security | Web Development