Poorna Malinhara

UNDERGRADUATE SOFTWARE ENGINEER

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Personal Statement

I am a dedicated Software Engineering undergraduate at NIBM, specializing in full-stack development. I thrive in collaborative environments and am committed to continuous learning and growth in the software engineering field. Driven by a passion for innovation, I am eager to take on challenging projects that push the boundaries of technology.

Education

Bsc (Hons) Computing (Second Year)   May 2023 - Present4

National institute of business management(Nibm),Coventry university

- GPA:3.49

Experience

Intern Software Developer - Lithium Technologies   Malabe, Sri Lanka
JavaScript | Node Js | React Js | Flask   May 2024 – Present

- Developed and maintained web applications and work with Rest APIs
- Analyzed logger data and created interactive dashboards using Elasticsearch, improving system monitoring and decision-making.
- Worked with Sql and Nosql databases and got basic Linux exposure

Skills

Programming Languages	Java, Python , JavaScript
Frameworks	Node js , React js , Flask,Tensorflow,Langchain
Databases	Mysql, MongoDB,Vector Db
Software Paradigms	Object-oriented Design, Microservices architecture
Version Control	Git
Cloud Platform	Aws

Projects

Lung Cancer Prediction Website   Jul 2024

This Lung cancer prediction model uses the Random Forest classifier algorithm to analyze medical data and predict lung cancer risk. It processes patient information, identifies key predictive features, and generates accurate predictions to aid in early diagnosis

The key features are:

- Supports early detection of lung cancer.
- Delivers very good predictive accuracy
- Tech stack: Flask , HTML, CSS,ML
- Workflow Automation with CI/CD Pipeline
- Link: https://github.com/Malinhara/Lung_cancer_predict-Flask-app-

IT Support Assistant chat bot (AI Rag application)   Aug 2024

The IT Support Assistant chatbot (AI RAG application) retrieves, augments, and generates contextually accurate responses using Chroma DB for vectorized data storage, supports IT-related queries, integrates the Huggingface API for enhanced data retrieval, has a React.js frontend, and utilizes LangChain for seamless handling of retrieval and augmentation workflows.

The key features are:

- RAG (Retrieve, Augment, Generate) Workflow: Contextually accurate responses for IT support scenarios.
- Huggingface API Integration: Enhances data retrieval and response generation.
- Users have the capability to resolve certain issues without the assistance of an IT support engineer
- Next.js Frontend: Handles queries and displays results.
- Tech stack: React js , Langchain
- Link: https://github.com/Malinhara/AI_assistant_Rag_app

User Login System using Face Recognition   Jun 2024

This project is a User Login System that leverages ml5.js for facial recognition, allowing users to authenticate through their webcam securely.

The Key features are:

- Utilizes ml5.js for secure and convenient login based on facial recognition.
- Instantly verifies user identity via webcam.
- Easily adaptable for future enhancements or integrations.
- Secure Data Handling: Ensures the protection of user credentials and facial data.
- Tech stack: EJS, Node js
- Link: User-Login-System-using-face-recognition

Mobile Phone selling items selling site for the top-rated company   Jun 2024

Website implements to Mobile phone item-selling shop. Users can buy products, admin can manage products. has a special focus on the security side of this website.

The key features are:

- Enhanced session management for user security by implementing OTP verification and password hashing, making it difficult for attackers to access passwords.
- Implemented measures to prevent Cross-Site Scripting (XSS) attacks, strengthening application security.
- Integrated a logger data view section for better monitoring and analysis of user activity.
- Created database users and assigned role-based privileges to ensure secure and controlled access.
- Tech stack: MongoDB, Express js, React js, Node js, Elasticsearch
- Link: https://github.com/Malinhara/Ecommerce_site-with-MERN

Courses

- Machine Learning with Python (Online)   Jun 2024
- Programming with JavaScript in Meat (online)   May 2024
- Front-end development Moratuwa University (Online)   April 2023

References

Mr.Bathiya Seneviratne   **Mr.W A Tharindu lakruwan**
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