

MOHAMED SASNI

SOFTWARE ENGINEER

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EXECUTIVE SUMMARY

Computer Science graduate with internship experience in full stack development and AI. Skilled in building web applications and applying machine learning to real-world problems. Strong foundation in software engineering, cloud tools, and modern frameworks, with a focus on creating scalable, user-focused solutions.

PROJECTS

Personalized AI Nutrition System | Python, Flask, TensorFlow/PyTorch, JavaScript, HTML, CSS

- Developed a full-stack AI application delivering personalized nutrition plans based on user health data.
- Built ML models with TensorFlow/PyTorch for real-time dietary recommendations.

Hotel Guest Management | React, TypeScript, Tailwind CSS, PocketBase

- Built a full-stack hotel guest management system to manage guest records and bookings.
- Integrated PocketBase as the backend database and authentication service, enabling real-time data handling and CRUD operations.

MCP Resume Server & Playground | Next.js, Node.js, Express.js, WebSocket JSON-RPC, REST API, SMTP

- Built a resume parsing and Q&A system with WebSocket JSON-RPC and REST API fallback.
- Developed a Next.js playground and SMTP email integration for user interactions.

Kommon Poll | JavaScript, PHP

- Contributed to an AI-powered sentiment analysis tool by implementing new features, fixing bugs, and maintaining both frontend and backend components.
- Improved keyword tracking accuracy and enhanced UI responsiveness through collaboration with the development team.

Synapse AI Labs Website | WordPress, PHP, CSS

- Redesigned and maintained the company website, enhancing UI/UX, adding new sections, ensuring responsiveness, and integrating plugins to reflect updated services.

Breast Cancer Mortality & Survival Prediction System | Python, Scikit-learn, Pandas, NumPy, Matplotlib

- Developed classification and regression models to predict mortality and survival duration using real clinical data, applying Logistic Regression, KNN, and Naive Bayes.
- Optimized model accuracy via feature selection, decision trees, and GridSearchCV.

Spam Email Classification System | Python, Scikit-learn, Pandas, Matplotlib

- Built a spam detection model using text preprocessing, TF-IDF vectorization, and a Multinomial Naive Bayes classifier trained on real-world email data.
- Evaluated model performance with cross-validation, confusion matrices, and AUC-ROC curves to ensure accurate classification.

EXPERIENCE

Synapse AI Labs

Oct 2023 – Oct 2024

Full Stack Software Engineer - Intern

- Engaged as a Full Stack Software Engineer Intern, contributing to end-to-end development tasks, debugging, testing, feature implementation, and optimization across web-based platforms.
- Collaborated with cross-functional teams to enhance product features, improve system performance, and ensure seamless user experiences through iterative development and regular code reviews.

TECHNICAL SKILLS

Languages - Python | Java | JavaScript | TypeScript

CMS & Web Platforms - WordPress

Web Development - React.js | Node.js | Express.js | Flask |
HTML/CSS | PHP

Database - MySQL | PostgreSQL | MongoDB

AI & Data Science: TensorFlow | PyTorch | Scikit-learn |
Pandas | NumPy | Matplotlib

Design - Figma | Adobe XD | Photoshop | Canva

Cloud tools - Google Cloud | Google Colab | TensorFlow
Deployment - Netlify | Vercel | GitHub Actions | Docker

Version Control - Git | GitHub

Collaboration Tools - Asana | Jira

Spreadsheets - Google Sheets | MS Excel

MS Office

EDUCATION

Bachelor of Science Honours in Computer Science

Sep 2021 – Present

Informatics Institute of Technology (IIT) affiliated with University of Westminster

Foundation Certificate in Higher Education - IT

Sep 2020 – Sep 2021

Informatics Institute of Technology (IIT) affiliated with University of Westminster

Distinction Pass

SKILLS

User Research | Problem-Solving | Project Management | Teamwork | Time Management | Communication |
Critical Thinking | Adaptability | Collaboration | Multitasking | Creativity | Continuous Learning

LANGUAGES

English (Fluent) | Sinhala (Native) | Tamil (Native)

REFERENCES

Mr. Havindra Gunawardene

Mr. Fouzul Hassan

Senior Lecturer

Lecturer

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