# Usama Puward

♥ Colombo, Sri Lanka | ☑ usamafuward2001@gmail.com | 076 626 0507 | ❷ Portfolio Website

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## **Profile**

AI/SE Engineer Intern and Software Developer with a Computer Science background, experience in Software Engineering and Artificial Intelligence. Dedicated to developing innovative, scalable solutions, tackling complex challenges, and driving real-world impact through collaboration and continuous learning. [Explore more of my works] 🗹.

### **Education**

#### BSc in Computer Science, University of Colombo

May 2022 - Aug 2025

• Coursework: Software Engineering, Data Structure and Algorithms, Machine Learning and Neural Computing, Middleware Architecture, SQA, DBMS

# Professional Experience

AI/SE Engineer Intern, Kainovation Technologies - Colombo, Sri Lanka

Nov 2024 - Present

- Designed and implemented the Support AI Assistant, a full-stack conversational AI with chat and voice support, using Next.js (frontend) and FastAPI (backend) integrated with OpenAI Realtime API, Gemini, and vector stores, delivering real-time, context-aware support for customers and employees
- Built an **Intelligent Document OCR Solution** with **FastHTML** (frontend) and **FastAPI** (backend), integrating **Gemini and OpenAI OCR models** to extract data from handwritten and printed documents with high accuracy
- Developed **Voice AI solutions** (AI Recruitment Assistant, AI Insurance Agent, AI Receptionist) with **Next.js** (frontend) and **FastAPI + Hume AI** (backend), enabling automated interviews, policy explanation, and real-time voice-enabled scheduling with calendar sync
- Created the **SAP Invoice Automation** frontend in **FastHTML**, streamlining invoice upload and formatting for SAP-ready outputs, improving accuracy and reducing manual data entry
- Developed the **InsurePulse landing website** using **React and Next.js**, delivering a responsive, SEO-optimized showcase for the platform's reporting and analytics features
- Independently developed the **official Kainovation Technologies website** in **Next.js**, achieving optimized performance, SEO visibility, and a fully responsive user experience

Contract Software Developer, Edus Lanka (PVT) LTD – Jaffna, Sri Lanka

Nov 2024 - Jan 2025

- Contributed to the development of Mediman Doctor Patient Clinic Online Appointment System, a full-stack MERN project
- Built the frontend using **React and Next.js**, delivering a responsive and user-friendly interface for appointment booking, patient management, and real-time doctor-patient communication
- Implemented **payment gateway integration** for secure online transactions, ensuring smooth and reliable payment flows
- Developed the **admin dashboard** for doctors and staff, enabling efficient management of appointments, patients, and system configurations

## **Projects**

### Eats Robers - Food Ordering Web App

github.com/Usamafuward 2

- Designed and developed a full-stack web application for discovering meals, placing orders, and managing payments
- Implemented RESTful APIs and MongoDB integration for seamless user experience
- Tools Used: React, Node.js, Express.js, MongoDB, Mongoose

#### Travel Point - Social Travel Platform

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- Built a social platform for travelers to share itineraries, experiences, and book accommodations
- Integrated FastAPI backend with React Native frontend for seamless web and mobile experience
- Implemented authentication, PostgreSQL database, and responsive UI using Tailwind CSS
- Tools Used: React, React Native, Node.js, FastAPI, PostgreSQL, Tailwind CSS

#### Mediman - Doctor Dashboard

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- Designed a responsive doctor dashboard to manage appointments, patient records, and prescriptions.
- Implemented modern UI components using Shadcn-UI and Tailwind CSS for better user experience.
- Tools Used: React, Shadon-UI, Tailwind CSS

# **Technologies**

Languages: Python, JavaScript, TypeScript, C++, SQL

AI/ML: TensorFlow, OpenAI API, Gemini, Hume AI, Pandas, NumPy, OpenCV, LangChain, Vector Databases

Frontend: React, Next.js, React Native, FastHTML, HTML/CSS, Tailwind CSS

Backend: FastAPI, Node.js, Express, Django, MongoDB, PostgreSQL

Cloud & DevOps: Microsoft Azure, Git, Docker, RESTful APIs

#### Certifications

Meta React Specialization **∠** 

Meta

Meta

Machine Learning Specialization ☑

DeepLearning.AI & Stanford

Introduction to Front-End Development **2**, Introduction to Mobile

Development **☑** 

Introduction to TensorFlow ☑, CNNs in TensorFlow ☑

DeepLearning.AI

Artificial Intelligence on Microsoft Azure ☑

Microsoft

Azure Fundamentals Training 🗹

Styava

Developing Back-End Apps with Node.js and Express Z

**IBM** 

Mastering Multi-Agent Development with AutoGen ☑

Packt

DevOps Essentials and Version Control with Git 2

Edureka NoviTech R&D

30 Days MasterClass in Artificial Intelligence Z

Meta

Programming with JavaScript ☑, Version Control ☑

Introduction to Generative AI Z, Introduction to Large Language Models Z,

Google Cloud

Introduction to Responsible AI

#### References

Mr. M.R. Sajeer Ahamed – MSc in Computer Science, Nottingham Trent University Software Development Engineer, Amazon, London, UK

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Mr. D.T. Bamunuarachchi – MSc in Computer Science, University of Colombo Lecturer, University of Colombo School of Computing

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