Hammad Hassan
COMPUTER SCIENTIST

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Passionate tech enthusiast proficient in full stack development, networking, AI, and ML. Actively seeking entry-level opportunities to contribute to innovative projects and leverage diverse technical skills effectively.

EDUCATION

FAST NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES – BS. COMPUTER SCIENCE   **2020-2024**

Relevant Coursework

Full Stack dev | Data Mining| Parallel Distributed Computing| Artificial Intelligence| Java |Computer Networking| Database Management | Blockchain | Software Project Management | Software Design Analysis |Software Engineering | Data Warehousing and Business Intelligence | Deep Learning for Perception | MLOps | Power Bi |Data Analysis & Visualization

EXPERIENCE

FULL STACK ENGINEER - SWE HEADSTARTER AI   **September 2024-2025**
Developing and maintaining **BrandBlast.ai** using NestJS,PostgreSQL,scalable backend APIs, SSR with third-party integrations

BACKEND DEVELOPER INTERN - IKNEX LAB FAST NUCES   **June 2024-Nov 2024**
Contributed as a Backend Developer to craft the UI of a Quranic referencing website, meticulously tailored for Arabic language user

DATA ANALYST INTERN - ENGRO HEADQUATORS   **November 2023- January 2024**
Managed Analyzed GSM operation data for top vendors, contributing to significant improvements in telecommunication services

FRONTEND ENGINEER - VIRTUSA (3 MONTH AGREEMENT)   **Remote, January 2023 - March 2023**
Remotely served as a ReactJS Developer, implementing updates for a hospital website, while employed with Virtusa limited.

FULL STACK DEVELOPMENT INTERN -BXTrack LTD   **October 2022-June 2023**
As a Full Stack Developer at BxTrack, I developed advanced skills and broad expertise across the full development spectrum, seamlessly integrating complex APIs with sophisticated user interfaces to deliver high-quality solution.

CERTIFICATIONS

◆ **AWS CERTIFIED CLOUD PRACTITIONER**
◆ **CLOUD COMPUTING WITH AZURE MANAGEMENT**
◆ **OCTA NET SERVICES PVT LTD JAVA SPRING BOOT**

PERSONAL PROJECTS

Final Year Project : Blockchain Powered E-Challan System – FineFlow (MERN, Web3, Solidity, Flask)
Led the integration of E-challan system with conversational AI, blockchain, and secure payment gateways for a final year project. Implemented geospatial analysis and robust cybersecurity measures and ensuring data integrity.

ElectLiveLiness Face Detector using Artifical Intelligence
Engineered an AI-driven liveliness detection system to distinguish between authentic faces and photographs, significantly enhancing security protocols for identity verification. This project showcased advanced expertise in facial recognition technologies, machine learning algorithms, and real-time data processing.

Advanced AI Model Implementation with Machine Learning Techniques
Utilized machine learning frameworks and libraries, including TensorFlow, PyTorch, and scikit-learn, to implement sophisticated AI models. Applied advanced machine learning techniques to develop predictive models, significantly enhancing analytics capabilities across diverse domains.

Doctor Appointment System - Oladoc (MERN , Firebase)
Developed an advanced Doctor Appointment System utilizing the MERN stack and Firebase, featuring an intuitive interface with integrated calendar functionality. The system enables online appointment scheduling for patients, while providing doctors with a robust interactive dashboard and efficient search and management tools. .

Gitlytics - (Python , Flask, React , PostgreSQL, Docker)
Developed a full-stack web application using Flask for a REST API and React for the frontend. Integrated GitHub OAuth for data retrieval, visualized repository collaboration, and employed Celery and Redis for asynchronous task management.

SKILLS AND INTERESTS

- **Programming Skills:** C/C++, C#, Python, Java, JavaScript, Assembly Language, HTML,R, SQL(Postgress), CSS, GoLang, Solidity (dAPPDevelopment, Smart Contracts)
- **Frameworks/Libraries:** MERN, React.js, Node.js, Express.js, Nextjs, TensorFlow, PyTorch, NumPy, Pandas, Matplotlib.
- **Databases:** MongoDB, MySQL, Firebase, Oracle
- **Developer Tools:** CI/CD, Docker, Git, GitHub Actions, Minikube, Kubernetes, PyCharm, Eclipse,Visual Studio,TravisCL