

KASHAF IRFAN

Full Stack Developer / Generative AI Engineer

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SUMMARY

As a final-year BSCS student specializing in Generative AI, Web Development, and GIS Analytics, I am passionate about creating intelligent, secure, and scalable software solutions. With over a year of hands-on experience in AI driven applications, Data Science, and full-stack web development, I have successfully integrated advanced machine learning models into practical applications, developed responsive web applications with Next.js, professionally implemented RESTful APIs, and ensured secure software design to mitigate cyber threats.

EDUCATION

FAST National University of Computer and Emerging Sciences

Graduation: Jun, 2025

Bachelor of Science in Computer Science

COURSES: Web Development / Generative AI / Artificial Intelligence / Remote Sensing & GIS / Software Testing / Information Security / Operating Systems / Digital Image Processing

TECHNICAL SKILLS

Languages: JavaScript, C++, Python, SQL

Developer Tools: Git, GitHub, Oracle, VS Code, CursorAI, Eclipse, Bash Scripting, ArcGIS, QGIS

Technologies & Frameworks: MERN Stack (MongoDB, Express.js, React.js, Node.js), FastAPI, Streamlit, Tailwind CSS, Material UI

AI Models & Integrations: Skill Assessment Model, LSTM Text Generator, OpenAI Whisper (Streamlit), REST APIs

PROJECTS

❖ Health Nexus

Final Year Project

Next.js, PostgreSQL, JWT, Python, AI

- Co-developing an AI-powered web platform to help users assess their skills and receive personalized learning paths for career growth.
- Designed and implemented a responsive frontend using React.js and Tailwind CSS, and a scalable backend with Node.js and MongoDB.
- Integrated machine learning models to evaluate user profiles and generate data-driven learning recommendations.

❖ Clinical Diagnostic System (RAG-based)

Generative AI

LangChain, OpenAI, Streamlit, Python, MIMIC-IV-Ext

- Developed a Retrieval-Augmented Generation (RAG) pipeline to answer medical queries using real-world clinical notes from the MIMIC-IV-Ext dataset.
- Built a Streamlit-based web interface for real-time querying, visualization, and user interaction.
- Preprocessed and filtered large clinical datasets to improve retrieval relevance and model output accuracy.

❖ Developed a Remote Access Trojan (RAT)

Information Security

C, Python(sockets), Java

- Implemented advanced cybersecurity measures to detect, analyze, and neutralize Remote Access Trojans, enhancing system security and threat mitigation capabilities.

❖ Math Meme Repair

Generative AI

Deep Learning, Colab, Streamlit

- Developed a model that identifies errors in viral math memes, generates clear educational explanations, and assigns humorous "error ratings," enhancing both engagement.