QASIM NAVEED
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PROFESSIONAL SUMMARY

Cloud-Certified Software Engineer and AI Researcher specializing in Natural Language Processing (NLP) and Cloud Architecture. Expert in building end-to-end systems, from Custom OS Kernels to scalable Generative AI (RAG) pipelines. Microsoft and AWS certified professional with a focus on high-performance computing and MERN stack development.

TECHNICAL SKILLS

AI & NLP: Transformers (GPT-2, BERT), RAG, LangChain, PyTorch, Hugging Face, Vector DBs.
Cloud & DevOps: Azure Developer Associate, AWS Solutions Architect, Docker, Kubernetes, Git.
Development: MERN Stack, .NET 10, C#, Python, C/C++, x86 Assembly, SQL, PostgreSQL.

CERTIFICATIONS

Microsoft Certified: Azure Developer Associate (2024)
AWS Certified: Solutions Architect – Associate (2024)
Professional Diplomas: MERN Stack (Udemy), Kubernetes & Docker (Coursera), Advanced MongoDB.

AI & RESEARCH PROJECTS

Urdu Conversational Chatbot | PyTorch, Streamlit
• Developed a complete Transformer Encoder-Decoder from scratch; implemented Multi-Head Attention for Urdu syntax.

Neural Program Synthesis (GPT-2) | Python, Hugging Face
• Fine-tuned GPT-2 for Pseudo-code to Python translation; evaluated via BLEU and CodeBLEU metrics.

RAG Document Intelligence | LangChain, OpenAI
• Built a pipeline for semantic search and real-time interaction with custom PDF data using Vector Databases.

CORE SOFTWARE PROJECTS

AI MIRROR (Final Year Project)
• Leading the development of an AI-powered behavioral reflection and analysis system using NLP.

2FA Security Bypass (Cybersecurity PoC)
• Simulated MITM and Phishing attacks to identify vulnerabilities in GitHub's 2FA authentication flow.

Custom OS & Compiler Construction | C, Linux
• Developed a C-based Linux Kernel (scheduling) and a functional Compiler for custom grammar.

ShopEase E-commerce | MERN Stack
• Full-stack platform featuring advanced MongoDB aggregation and secure user authentication.

Low-Level Systems: T-Rex Game (x86 Assembly), RFID Door System (Arduino), Dodge 'em (C++).

EDUCATION

BS in Computer Science | FAST-NUCES (CFD Campus) | Expected 2026