

Monis Shaikh

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Education

VIT Bhopal University

B.Tech in Computer Science, Specialization in Cloud Computing

Bhopal, MP

Expected May 2026

Experience

ASolution

Software Developer Intern

Remote

May 2024 – Present

- Engineered a complete website redesign using React.js and Tailwind CSS, achieving a 30% reduction in load time and ensuring 100% responsiveness across all mobile and desktop viewports.
- Boosted key site performance metrics by optimizing image assets and implementing code splitting, raising the Lighthouse performance score from 60 to 81 and the SEO score from 74 to 92.
- Managed end-to-end deployment via cPanel, ensuring 99.9% uptime by implementing a robust backup and recovery plan to mitigate potential site failures.
- Contributed to the full software development lifecycle for a new lead-generation feature, from gathering requirements with UX teams to deployment, resulting in a 20% increase in qualified leads.

Projects

InsightEngine | AI-Powered Document Intelligence Platform

Tech: Python, FastAPI, GCP, TinyBERT, Pinecone

- Advanced to the second round of Bajaj Finserv's HackRx 6.0, placing 242nd out of an initial field of over 46,000 registrants.
- Engineered a novel RAG pipeline using a HyDE generator and a TinyBERT cross-encoder, increasing the model's overall answer accuracy by 233% over the initial baseline.
- Optimized the retrieval and ranking algorithm, reducing the average end-to-end query response time by 23.5%.
- Deployed the full application on Google Cloud Platform (GCP) with a high-performance FastAPI backend, implementing a two-stage cache that cut latency for repeated queries by 95%.

DeepMetrics | AI Model Benchmarking Tool

Tech: Next.js, FastAPI, TensorFlow, PyTorch, ONNX

- MERNxAI Hackathon Runner-Up Winner
- Engineered an automated benchmarking infrastructure to evaluate TensorFlow, PyTorch, and ONNX models, which measured 5+ key performance metrics (e.g., latency, memory, GPU usage) and reduced manual testing efforts by 85%.
- Developed a high-performance FastAPI backend and a responsive Next.js frontend, implementing lazy loading for heavy components to achieve a 40% improvement in overall site load time.

Skills

- Languages:** Python, JavaScript, TypeScript, C++
- AI/ML:** PyTorch, TensorFlow, Pandas, NumPy, Scikit-learn, Hugging Face
- Frontend:** React.js, Next.js, Tailwind CSS, GSAP
- Backend & Databases:** FastAPI, RESTful APIs, MySQL, MongoDB, Pinecone
- Cloud/DevOps & Tools:** GCP, AWS, Docker, Git, Linux, Figma