MOHAMMED MUDASSIR

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EDUCATION

Arizona State University   Tempe, AZ
Master Of Science in Information Technology – (GPA:4.0)   *Jan. 2024 – Dec. 2025*

Osmania University   Hyderabad, India
Bachelor of Engineering in Computer Science – (GPA:3.7)   *Aug. 2018 - July 2022*

TECHNICAL SKILLS

Languages: Python, C, Java, JavaScript, TypeScript, SQL
Frameworks and Technologies: React.js, Node.js, HTML, CSS, Next.js, Flask, Tailwind CSS, Express.js, MongoDB, MySQL, PostgreSQL, Redis, AWS(EC2, RDS, S3, DynamoDB, Lambda)
Core Concepts: Distributed Systems, CORS, REST APIs, Data Structures and Algorithms, SDLC, OOPS
AI and LLMs: Generative AI, RAG, LangChain, Code LLaMA, OpenAI APIs, Hugging Face Transformers
Developer Tools: VS Code, GitHub, Docker, Kafka, RabbitMQ, Vite, Postman, Kubernetes

EXPERIENCE

Database Developer   *Apr. 2025 – Present*
L'Space by Nasa, Arizona State University   *Tempe, AZ*

- Led a team of 3 to develop robust Python scripts for migrating 7+ years of fragmented legacy data from Excel into centralized HeidiSQL database, establishing a unified source for 100,000+ records.
- Engineered a fully normalized Snowflake schema and biweekly automated data pipelines, reducing manual workload by 80% while enhancing data freshness.
- Designed and implemented a field-level validation framework with 95% discrepancy detection accuracy, ensuring end-to-end data integrity and reliability.

Open-Source Contributor- Frontend Developer   *Feb. 2024 – Present*
Bluewave Labs   *Remote*

- Built and refined 20+ reusable React + TypeScript components, debugging UI issues with Chrome DevTools and React DevTools, reducing defects by 30% and improving rendering speed for a smoother cross-device user experience.

Machine Learning Intern   *Sep. 2021 – Dec.2021*
Indian Servers   *Hyderabad, India*

- Worked on building and optimizing predictive models, preprocessing large datasets, and implementing ML pipelines for glaucoma detection analysis
- Evaluated and fine-tuned machine learning algorithms to improve glaucoma detection accuracy, generating actionable insights from medical imaging data.

PROJECTS

FamBond-A Private Networking Platform   *(Github)*
| *React.js, JavaScript, Node.js, MongoDB, AWS*

- Built a full-stack platform supporting 100+ concurrent users with secure real-time interactions, and AWS powered media storage.
- Designed a modular backend with REST APIs and a responsive React UI using Material UI and Tailwind CSS, ensuring smooth cross-device experience.

Code Vertex - AI Coding Interview & Review Platform   *(Live Link)*
| *TypeScript, React.js, Node.js, Code LLaMA via Hugging face API, AWS (lambda,S3)*

- Launched an interactive coding platform with 150+ frequently asked coding questions and AI-driven Feedback powered by the Hugging Face Inference API using the Code LLaMA model.
- Built scalable APIs hosted serverless on AWS Lambda and frontend deployed on S3, integrating a responsive React UI with an embedded code editor, reducing recruiter review cycles by 40%.