

MUSKAN ARORA

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Education

University of Texas at Arlington (Masters of Science in Computer Science, GPA : 3.67/4)	08/2023 – 05/2025
The NorthCap University (Bachelors of Science in Computer Science, GPA : 3.7/4)	07/2018 – 06/2022

Experience

University of Texas at Arlington <i>AI Platform Developer</i>	08/2025 – Present
<ul style="list-style-type: none">Built a Streamlit based Python web app integrating NLP(Stanza) and text to speech(gTTS) for real time grammar feedback.Developed comic builder, glossary generator, and exercise engine modules using dynamic JSON workflows for personalization.Analyzed usage data to measure student engagement and optimized AI feedback models, improving comprehension by 25%.Automated content export workflows using ReportLab to generate structured PDF outputs from AI generated content.Collaborated with academic mentors to align AI feedback with instructional goals and accessible learning standards.	
Bitxia Tech Private Limited <i>Software Development Engineer</i>	08/2021 – 07/2023
<ul style="list-style-type: none">Designed 30+ KPI dashboards using Angular and AG Grid, reducing load times by 30% and accelerating funding decisions.Translated business needs into Angular UIs by designing Spring Boot REST APIs integrated with Oracle databases.Built SQL pipelines integrating Digio, Karza, and Mifos APIs to automate KYC, credit scoring and loan approvals.Improved issue resolution time by 38% by incorporating JUnit testing into backend service workflows.Reduced post release downtime by 56% by implementing Docker based recovery processes and resilient deployment pipelines.Designed data pipelines integrating APIs and databases to ensure data quality, lineage, and real time financial reporting.Scaled a FinTech platform handling \$5B in annual financing and 150K+ invoices through load balancing and database tuning.	
Evren Global Solutions <i>Software Engineer</i>	06/2021 – 08/2021
<ul style="list-style-type: none">Developed a scalable directory platform using Node.js with responsive UI and CI/CD integration, improving onboarding by 22%.Designed and launched a matrimonial platform with reporting features, achieving 98% customer satisfaction through intuitive UX.Built an internal employee management system using HTML, CSS, and Node.js to streamline operational workflows.	
Blondwaves - ILMURO <i>Flutter Developer</i>	05/2020 – 08/2020
<ul style="list-style-type: none">Collaborated with UI designers to deliver cohesive mobile UX, increasing retention by 18% and reducing bounce rate by 23%.Developed core Flutter application features that improved app ratings by 30% and increased daily active users by 17%.	

Projects

Distributed Consensus Engine <i>Go, Python, Node.js, gRPC Docker</i>
<ul style="list-style-type: none">Architected a fault tolerant distributed system implementing the Raft consensus algorithm and 2PC for data consistency.Developed the log replication module in Go to synchronize leader and follower state via gRPC AppendEntries calls.Implemented leader election logic in Python using randomized timeouts and heartbeat mechanisms for failure handling.Designed a unified raft.proto to standardize message formats across Python, Go, and Node.js services.Orchestrated a multi-node cluster using Docker Compose to simulate failures and validate consensus behavior.
Conference Management System <i>React, Express, Node.js, REST APIs</i>
<ul style="list-style-type: none">Architected a full-stack system for academic paper submissions using React for UI and Express for backend APIs.Implemented secure JWT authentication and dynamic data handling to support live conferencing workflows.Managed the project lifecycle using Jira and Waterfall methodology to deliver core UI features on schedule.
Reward Management System <i>Angular, Spring, Hibernate, MySQL</i>
<ul style="list-style-type: none">Developed a system with a microservice architecture, increasing task allocation efficiency by 60% with the LRU algorithm.Utilized Docker for containerization and deployed on AWS, achieving 99.9% uptime and scalable infrastructure.

Technical Skills

Languages: Java, Python, Go, JavaScript, TypeScript, SQL, HTML

Frameworks & Tools: React, NodeJS, Angular, Flutter, Spring Boot, Docker, Kubernetes, gRPC

Cloud & Data: AWS, PowerBI, Tableau, MongoDB, MySQL, Oracle

Systems & Methods: Jira, Git, CI/CD, SDLC, Agile, Microservices Architecture

AI & GenAI: NLP (Stanza), Text-to-Speech (gTTS), HITL workflows

Certifications

- Google Project Management Certification
- AWS Certified Developer - Associate