

Muhammad Sheraz Tariq

Dallas, TX 75098

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Work Authorization: US Citizen

PROFESSIONAL SUMMARY

Innovative Software & AI Engineer with expertise in **Java, Spring Boot, and cloud-native microservices** (AWS, Azure). Proven success designing and deploying **agentic AI workflows**, integrating **MCP Server**, LLMs, and automation pipelines to improve development, testing, and deployment efficiency. Skilled in **generative AI integration, AI-powered code review, and natural language data querying**.

- Delivered **20%+ reliability gains** through AI-assisted monitoring and auto-retry API systems.
 - Architected **AuditGPT** using AWS Bedrock, Snowflake Cortex AI, and FastAPI for automated audit data analysis.
 - Passionate about **clean code, intelligent automation, and building scalable AI-first systems**.
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CERTIFICATIONS

- **AWS Certified** Cloud Practitioner
 - **Microsoft Certified:** Azure Fundamentals
 - **Microsoft Certified:** Azure AI
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EXPERIENCE

Client Name: NextGear Capital, Irving, TX

October 2022 - Present

Role: Software Engineer – Agentic AI and Automation

- Engineered and deployed scalable microservices using Spring Boot, improving audit scheduling processes to log planned schedules, auto-create dealer self-audit records, and enhance audit data retrieval and processing.
- Implemented **agentic AI workflows** using the **MCP Server** platform to orchestrate multiple AI tools including GitHub Actions, Rally, SonarQube, and web-based automation.
- Developed **context-aware AI agents** capable of performing automated pull request reviews, generating code suggestions, and retrieving development metrics to support engineering decisions.

- Optimized AWS and Azure cloud infrastructures by updating audit scheduler configurations and leveraging cloud workflows to enhance deployment flexibility and reliability..
- Designed and built AuditGPT, an **AI-powered agentic system** for automating audit data analysis and natural language querying of Snowflake datasets.
- Developed multi-step AI workflows using tools like **AWS Bedrock**, Promptly, and **Snowflake Cortex AI** to translate business questions into executable SQL queries.
- Integrated AuditGPT with FastAPI backend and Snowflake to support dealer risk analysis, anomaly detection, and audit schedule validation.
- Leveraged **multi-agent architecture** for intent classification, table selection, SQL generation, and summarization to streamline internal audit workflows.
- Led the migration of multiple backend services to Azure, integrating them with AWS services and transitioning from legacy configurations to modern, **scalable cloud solutions**.
- Automated critical tasks such as log management and audit record validation, reducing manual intervention and improving process accuracy and efficiency.
- Collaborated closely with PM and design teams to **refine feature specifications** and deliver improvements such as time-zone adjustments for audit records and enhanced scheduler functionality, ensuring high-quality outcomes.

Environment: Java, Python, Spring Boot, RabbitMQ, MySQL, Azure, AWS, Nomad, New Relic, Terraform, Maven, log4j, Jenkins, React, React Native.

Client Name: FieldRoutes, Irving, TX

October 2019 – September 2022

Role: Software Engineer

- Led 2 full-stack development projects using Agile methodologies, from concept through deployment, focusing on **AWS cloud services** enhancement and Salesforce platform integration.
- Architected and deployed microservices leveraging Spring and AWS components to develop RESTful APIs for seamless integration across 4 projects; achieved a 20% increase in system reliability and a **10% improvement in scalability**
- **Improved front-end UI** using React and Material UI, alongside traditional technologies (JSP, HTML, CSS), enhancing user experience and interaction for 5000+ daily active users.
- Introduced GitLab CI to streamline DevOps practices, automating build, test, and deployment processes for 12 applications, achieving continuous integration and delivery.

Environment: Java, J2EE, JSP, Servlets, Hibernate, Spring, PostgreSQL, AWS, React, Material UI, GitLab CI, Jira, Unix.

TECHNICAL SKILLS

- **Programming:** Java, Python, JavaScript, Spring Boot
- **Web Frameworks:** Angular, React, React Native, Material UI

- **AI & Automation:** Agentic AI, MCP Server, Generative AI, LLMs, Prompt Engineering, LangChain, AI-based code review, AI workflow orchestration
 - **Cloud Platforms:** AWS (EC2, S3, RDS, IAM, Bedrock), Azure (VMs, SQL Database, Active Directory, AI Services)
 - **Databases:** MySQL, PostgreSQL, MongoDB, NoSQL, Snowflake
 - **Messaging & Streaming:** RabbitMQ, Apache Kafka, AWS SQS
 - **DevOps & Monitoring:** Docker, Kubernetes, Jenkins, Maven, Git, GitLab CI, Terraform, Nomad, New Relic, Datadog, Splunk, Log4j
 - **Project Tools:** Jira, Rally
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EDUCATION

- **Master of Science in Artificial Intelligence, University of Texas at Austin, USA***(In Progress)*
- **Bachelor of Science** in Computer Software, Bellevue University at Nebraska, USA
- **Associate of Science** in Computer Science, Dallas College at Texas, USA