Musab Shaikh

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Fullstack Developer with 3+ years specializing in Java, Spring Boot, Python, and high-performance backend systems with Agile development. AWS-certified expert in cloud-native microservices, CI/CD automation, and scalable applications with publications in Elsevier and IEEE.

SKILLS

- **Languages:** Java, Python, HTML5, CSS, SQL, JavaScript, C, Golang, PHP, TypeScript
- **Developer Tools:** AWS, Linux, GCP, Git, GitHub Actions, Docker, Kubernetes, Postman, RabbitMQ, Terraform, Jenkins
- **Databases:** MySQL, MongoDB, PostgreSQL, DynamoDB, Elasticsearch, Redis
- **Frameworks:** SpringBoot, Node.js, Express.js, Flask, React.js, Next.js, TailwindCSS, Bootstrap, FastAPI

WORK EXPERIENCE

- **Sr. Software Engineer** — April 2023 – July 2024
  Capgemini Technology Services India Limited — *Mumbai, India*
  - Boosted application scalability by 300% and cut infra costs by 25% via AWS deployment & migration from on-prem (ECS Fargate,S3).
  - Architected automated Jenkins CI/CD pipeline integrating build-test-deploy workflows with comprehensive quality checks.
  - Reduced release cycle time from 4 hours to 1 hour (75% improvement) and decreased production deployment failures by 60%.
  - Lowered infrastructure provisioning time by 80% and eliminated configuration drift through Terraform IaC implementation.
  - Decreased production bugs by 45% and code review time by 50% through Gitflow branching, peer reviews, and clean-code standards.

- **Software Engineer** — September 2021 – April 2023
  Capgemini Technology Services India Limited — *Mumbai, India*
  - Developed a Java-Spring Boot multi Microservices platform, exposing 30+ versioned REST APIs on MySQL via JPA/Hibernate.
  - Added RabbitMQ queues and Redis caches, lowering p95 latency from 400 to 250 ms while sustaining 3 k req/s at 99.9 % availability.
  - Implemented Spring Security with JWT auth, TLS encryption, and comprehensive unit testing, reducing vulnerabilities by 85%.
  - Designed polyglot persistence architecture using MySQL for transactions, MongoDB for unstructured data, and cloud object storage.
  - Optimized database queries and designed indexing strategies resulting in a 40% reduction in average query execution time.

- **Data Science Intern** — June 2021 – July 2021
  The Sparks Foundation — *Goa, India*
  - Engineered Python analytics prototypes (Pandas, scikit-learn) achieving 92% model accuracy and 35% error reduction.
  - Performed EDA with Matplotlib/Seaborn and outlier detection, analyzing 50K+ records and identifying 3 revenue correlation patterns.
  - Trained linear-regression, random-forest and k-means models via GridSearchCV, reducing demand-forecast RMSE by 22%.
  - Constructed 4 Tableau dashboards and reproducible Python workflows, implementing 20+ streamlined tests for data pipeline reliability.

EDUCATION

- **Master of Engineering in Software Engineering** — Graduation Date: September 2025
  University of Western Ontario — *London, Ontario, Canada*
- **Bachelor of Engineering in Electronics and Telecommunications Engineering** — Graduation Date: September 2021
  Don Bosco College of Engineering — *Margao, Goa, India*

PROJECTS

- **Spring Boot-Powered AI Microservices App**: GitHub Repository
  - Built with Spring Boot microservices architecture, React.js frontend, and OpenAI API integration for GPT and DALL·E capabilities.
  - Developed three independent microservices for image generation, chat AI, and recipe generation with secure RESTful API design.
  - Implemented resilience features including request throttling, input validation, and fault tolerance for production-ready scalability.

- **Full-Stack Social Media Blogging Application**: GitHub Repository
  - Built with React/Redux frontend, Node.js/Express.js backend, MongoDB database, and JWT authentication for secure user management.
  - Developed social blogging features including user posts, comments, likes system, and real-time interactions with RESTful API design.
  - Deployed to GCP using Docker containers, Kubernetes orchestration, and automated CI/CD pipeline with GitHub Actions.

- **Restaurant Review App**: GitHub Repository
  - Built with Spring Boot, Elasticsearch, Keycloak, Next.js, and Docker Compose for secure JWT authentication and containerized deployment.
  - Implemented geospatial search using Elasticsearch geo_distance queries for location-based restaurant discovery and user reviews.
  - Developed REST API for restaurant CRUD operations, time-bound review editing, and file uploads with responsive frontend integration.

CERTIFICATIONS

- **AWS Certified Developer Associate** — Validity: July 2023–July 2026
  Validation Number: BNVZP64CX1QE1SWT