# Anwar Shaik

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## Profile Summary

An innovative and highly skilled Full-Stack Java Developer with over 5 years of experience delivering robust technical solutions in both startup and corporate environments. I am adept at leveraging modern technologies and frameworks to enhance system efficiency and user productivity. My expertise spans AWS (including Fargate and auto-scaling), React, Angular, Java, TypeScript, Python, Redux, and Spring Boot, enabling me to design and implement scalable, cloud-native applications. As a tech-savvy professional with a keen ability to adapt to emerging technologies, I have honed my skills in dynamic settings, consistently driving business outcomes. I hold a Master's degree in Computer Science with a GPA of 4.0, which further solidifies my technical foundation. A hands-on coder and advocate for test-driven development (TDD), I excel in delivering high-quality, maintainable code.

- **Full Stack Development:** Expertise in React, Redux, Angular, and Bootstrap; enhanced user productivity by 40% and reduced manual workload by 30% with advanced workflow systems. Proficient in React Hooks, Redux, Angular's modular architecture, NgRx, and lazy loading for scalable, maintainable front-end solutions.

- **Cloud Expertise:** Extensive experience with AWS services (ECS, EC2, Fargate, Lambda, S3, IAM, CloudWatch, SNS, RDS, VPC, Route 53, CloudFormation), automating infrastructure and managing scalable, secure deployments for improved performance and reduced costs.

- **Back-End Development & Optimization:** Skilled in Java, TypeScript, and Spring Boot for high-performance microservices. Proficient in using graph theory, PostgreSQL, and JDBC for efficient data management and optimization, driving improved system performance and scalability.

- **Testing & Quality Assurance:** Strong background in TDD/BDD with Karate, Cucumber, JUnit, Mockito, JMeter, SoapUI, and Jenkins for comprehensive test coverage and high code quality. Expertise in automation and code quality analysis using Sonar, ensuring reliable and maintainable software delivery.

- **Containerization & CI/CD:** Proficient in Docker for consistent environment management and experienced with AWS CodePipeline, Jenkins, and CodeBuild for CI/CD automation, enabling reliable and efficient deployments across multiple environments.

## Skills

| Category | Technologies/Tools |
|---|---|
| **Cloud Technologies** | AWS (EC2, ECS, Lambda, SQS, SNS, S3, Fargate, CloudWatch, API Gateway, IAM, CloudFormation, VPC, Auto Scaling, Route 53, ELB, CloudFront, CloudTrail) |
| **Containerization and CI/CD** | Docker, Kubernetes, Fargate, Load Balancing, GitLab CI/CD, Jenkins, Blue-Green, Canary, AWS CodeBuild, AWS CodeDeploy, CodePipeline |
| **Programming Languages** | Java, TypeScript, JavaScript, Python, PHP, C, GO, C++, SQL, Bash |
| **Web Development** | React, Angular, HTML5, CSS, Responsive Web Design, Next.js |
| **Frameworks** | Spring, Spring Boot, Maven, Flask, Django, FastAPI, Node.js, Tkinter |
| **Testing** | Cucumber, E2E, API Testing, Karate, JMeter, Insomnia, Test-Driven Development (TDD), Behavior-Driven Development (BDD), Mockito, PowerMock |
| **Libraries** | ReactFlow, React Redux, Moment.js, Math.js, Keras, Pandas, Matplotlib, Seaborn, OpenCV |
| **Database Management** | PostgreSQL, MySQL, MongoDB, DBMS, Elasticsearch |
| **Tools/Technologies** | Git, GitHub, GitLab, Jenkins, Postman, Soap-UI, SonarQube, Splunk, Slack, Confluence, SourceTree, IntelliJ |

## Work Experience

**Capital One**                                                                    Plano, TX
*Software Engineer*                                                        Oct 2024 - Present

○ Managed AWS services, including EC2, ECS clusters, Lambda, S3, Fargate, VPC, auto-scaling, and IAM, ensuring scalable and secure deployments for critical applications.

○ Maintained and enhanced a microservices architecture, ensuring high availability, scalability, and seamless integration of applications.

○ Implemented and applied serverless solutions using AWS Lambda, API Gateway, SQS, SNS, and Step Functions to streamline workflows, reduce operational overhead, and increase overall system efficiency.

○ Deployed and configured Docker for containerizing Java Spring and Spring Boot applications, improving deployment speed and consistency across environments, enhancing scalability and reducing operational overhead.

○ Engineered a CI/CD pipeline using Dockerfiles and entrypoint scripts to automate image builds and container validation, enabling seamless integration and continuous delivery.

○ Boosted test coverage from 0% to 80%+ by writing unit tests with Mockito and PowerMock, and E2E tests with Karate, aligning with SonarQube standards for enterprise-grade reliability.

○ Configured AWS CloudWatch alarms for 5XX errors and integrated with PagerDuty for real-time incident response, improving system reliability and enabling rapid issue resolution.

○ Automated multi-destination log ingestion (CloudWatch, CloudTrail, Splunk, OpenTelemetry) using sidecar containers and PipePiper, improving observability and real-time performance monitoring.

○ Monitored system performance using AWS CloudWatch, New Relic, and Splunk, proactively identifying and resolving issues, optimizing resource allocation and performance under peak loads.

○ Implemented failover strategies using Geo DNS records, Weighted Routing, and Latency-Based Routing in Amazon Route 53, enhancing system resilience and uptime during high traffic periods.

○ Developed and integrated two-phase commit strategies for distributed transactions in microservices, ensuring consistency and reliability of data across the system.

○ Implemented and managed S3 replication strategies across multiple regions, ensuring data redundancy, high availability, and disaster recovery for mission-critical applications.

○ Maintained ECS clusters for containerized applications, improving deployment consistency, resource optimization, and minimizing downtime during updates and scaling.

○ Conducted performance testing using JMeter, simulating real-world traffic to identify and resolve bottlenecks, optimizing throughput, scalability, and user experience under high load conditions.

**Environment:** AWS, EC2, ECS, Lambda, S3, Fargate, VPC, Docker, Spring Boot, Kubernetes, Jenkins, blue-green, canary, rolling updates, CloudWatch, CloudTrail, CloudFormation, Route 53, PagerDuty, Splunk, OpenTelemetry, JMeter, Karate, Mockito, PowerMock, unit testing, Integration Testing, End-to-End Testing, SonarQube.


**Nexillo**                                                                    Grapevine, TX
*Full Stack Developer*                                                    Jan 2024 – Oct 2024

○ Contributed as a key team member in a fast-paced startup environment, driving innovations and scaling solutions to meet evolving business needs.

○ Configured AWS CloudFormation templates for infrastructure as code, improving deployment efficiency.

○ Set up CI/CD pipelines, integrating AWS CodeCommit, AWS CodeBuild, and AWS CodeDeploy for automated deployments.

○ Optimized backend services using Java and Spring Boot, implementing RESTful APIs and enhancing system performance and reliability.

○ Developed backend services in Java using JDBC and PostgreSQL, implementing ER models and efficient ORM layers to optimize data access and scalability.

○ Built graph-based backend logic to auto-generate Netflix Conductor-compatible workflows via ReactFlow, improving reuse and scalability with a custom-built library.

○ Skilled in utilizing both Step Scaling and Target Tracking Scaling Policies to manage application scaling effectively based on workload patterns.

○ Monitored, tracked, and logged application performance using AWS CloudWatch, ensuring optimal operation and performance with alarms.

○ Engineered a workflow system using ReactFlow and React Redux, increasing user productivity by 40% and reducing manual workload by 30%.

- Enhanced data management efficiency by 30% using PostgreSQL, compared to Excel. Implemented database optimizations and indexing strategies.
- Integrated Docker for containerization, enhancing development consistency and deployment speed.
- Implemented E2E and API testing using Karate and Cucumber, ensuring high-quality code delivery.
- Styled the application with Bootstrap for a responsive user interface, improving accessibility across devices by 25%.
- Collaborated using Slack and Confluence, maintaining clear communication and documentation, while compiling project materials to ensure ease of future reference and foster effective team collaboration.
- Worked with Splunk and AWS CloudWatch log insights for effective log management and issue resolution.
- Streamlined SDLC workflows using IntelliJ IDEA and SourceTree, ensuring clean commits, branch strategy, and efficient peer reviews.

**Environment:** AWS, EC2, ECS, Docker, Spring Boot, PostgreSQL, React, ReactFlow, React Redux, Kubernetes, CloudWatch, SonarQube, Karate, Cucumber, JMeter, Jenkins, Git, GitHub, IntelliJ, Confluence, Slack.

## Wichita State University                                                                                                           Wichita, KS
*Teaching Assistant - Perspectives on Data Science*                                                          *June 2023 – May 2024*

- Planned, updated course materials, and facilitated discussions for 35+ students, leading to a 95% course satisfaction rate.
- Maintained weekly office hours and problem-solving sessions, ensuring personalized support and guidance.
- Designed and graded assessments and exams timely, providing detailed feedback that enhanced learning outcomes.
- Collaborated with fellow TAs to research and integrate cutting-edge solutions into course projects, enriching student learning and project quality.
- Developed generative AI examples based on Ollama, showcasing cutting-edge technologies in practical settings, resulting in a 50% increase in student engagement.

**Environment:** Python, Jupyter, Pandas, Matplotlib, NumPy, Scikit-learn, TensorFlow, Keras, Git, GitHub, Google Colab, AWS.

## Infosys Ltd                                                                                                                       Hyderabad, India
*Senior Systems Engineer*                                                                                        *Feb 2020 – Dec 2022*

- Migrated Java services from EC2 to Fargate, significantly reducing operational costs and improving resource utilization.
- Implemented auto-scaling features through performance testing with JMeter and other tools, applying a strategic step-up implementation.
- Designed and developed containerization strategies using Docker within CI/CD pipelines for streamlined deployment and scalability.
- Wrote unit test cases for 15+ Java services using Spring Boot, achieving an 85% code coverage and compliance with SonarQube standards; conducted end-to-end API testing with Cucumber, Karate, and Maven.
- Developed and integrated microservices architecture with Docker and AWS ECS, ensuring efficient scaling and management of distributed services.
- Utilized AWS CloudWatch for performance monitoring and alert setup, leading to a 20% improvement in incident response times.
- Automated cloud infrastructure with AWS CloudFormation templates, creating custom VPCs, subnets, NAT, EC2 instances, ELB, and security groups.
- Integrated AWS IAM to enforce robust security policies, reducing security risks by 25% and ensuring industry standard compliance.
- Designed and developed ETL pipelines using AWS Glue and PySpark, reducing data processing time by 40% and optimizing resource usage.
- Maintained CI environments with Jenkins, Bamboo, and TFS; automated Master-Slave configurations for efficient resource utilization.
- Developed Maven and Gradle scripts to automate the build process.
- Managed DNS zones globally with Amazon Route 53, providing public DNS names to ELBs and CloudFront for content delivery.
- Resolved over 30 critical bugs in AWS-based environments, resulting in a 20% increase in user satisfaction and a 25% reduction in technical debt.
- Deployed and maintained production environments using AWS EC2 instances and ECS with Docker.

**Environment:** AWS, EC2, Fargate, ECS, Docker, Spring Boot, JMeter, Karate, Maven, Jenkins, CloudFormation, CloudWatch, Route 53, PostgreSQL, S3, IAM, Terraform, Python, Kubernetes, SonarQube.

**Electronics Corporation of India Limited** Hyderabad, India

*Data Engineer Intern* *May 2018 – Aug 2018*

- ○ Collected and analyzed electricity consumption data using Power BI and SQL, generating insightful reports aligned with business objectives.
- ○ Maintained high-quality curated datasets, ensuring adherence to data governance principles for enhanced data integrity and reliability.
- ○ Build customized Kafka connectors to import data from external sources to Kafka topics.
- ○ Collaborated with cross-functional teams to enhance analytics capabilities and improve overall data quality, facilitating informed decision-making.

**Environment:** Power BI, SQL, Kafka, Python, Hadoop, Spark, Git.

## Education

**Wichita State University** Wichita, KS

*Master's in Computer Science,* ***GPA: 4.0/4.0*** *May 2024*

- ○ Enhanced student learning through effective teaching as a **Graduate Teaching Assistant**, securing a 75% scholarship for excellence.
- ○ **Relevant Coursework:** Reinforcement Learning (CS-898BG), Software Analysis Methods (CS-898AE), Neural Networks and Deep Learning (CS-797O), **Advanced Topics in Data Storage (CS-797K)**, **Advanced Algorithms/Analysis on Graphs (CS-797P)**, Machine Learning (CS-770), **Advanced Algorithms/Analysis (CS-721),** Perspectives on Data Science (CS-746), **Web Programming (CS-697AQ)**, Microsoft Power Business Intelligence (CS-697AR)

## Honors & Awards

- **75% Tuition Scholarship for Academic Excellence**: Wichita State University (2023 & 2024)
- **"AI and Emerging Technologies" Workshop**: TalentSprint and IIT Hyderabad 2019
- **3rd Place Winner**: Samyak 2019 University Hackathon