

SUNNY SHAH

Software Engineer

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Professional Summary

- Full-stack software engineer with 5+ years of experience delivering enterprise-grade applications using Java (Spring Boot), React.js, Angular, and AWS, with a focus on performance, scalability, and security.
- Experienced in building and maintaining microservices architectures with RESTful APIs, Spring Data JPA, Kafka, and AWS SNS/SQS, enabling real-time and event-driven systems.
- Skilled in automating cloud infrastructure using Terraform and managing containerized deployments via Docker, Kubernetes (EKS), and Helm across multi-environment pipelines.
- Strong background in DevOps and CI/CD, leveraging Jenkins, GitHub Actions, SonarQube, and Snyk to streamline delivery, enforce code quality, and implement secure release workflows.
- Adept in observability and system reliability using Prometheus, Grafana, OpenTelemetry, Jaeger, and the ELK stack, with a proactive approach to monitoring, tracing, and incident response.

Skills

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| Programming Languages: | Java, JavaScript, TypeScript, SQL, HTML5, CSS3 |
| Frameworks & Libraries: | Spring Boot, Spring MVC, Hibernate (JPA), React.js, Angular, Node.js, Material-UI, Tailwind CSS |
| API Development: | RESTful APIs, OpenAPI (Swagger), AWS API Gateway |
| Authentication & Security: | OAuth2, OpenID Connect, JWT, SAML, OWASP Best Practices, SonarQube, Snyk, Checkmarx |
| Cloud Platforms & Services: | AWS (EC2, S3, RDS, DynamoDB, Lambda, EKS, SNS, SQS, CloudWatch, API Gateway) |
| Infrastructure as Code: | Terraform, Helm, Docker, Kubernetes, AWS CloudFormation (familiar), Pulumi (basic) |
| CI/CD & DevOps: | Jenkins, GitHub Actions, Maven, Gradle, Git, Blue/Green Deployments, Canary Releases |
| Testing & Quality Assurance: | JUnit, Mockito, Cypress, Selenium, Pact, Postman, REST Assured, Jacoco |
| Monitoring & Observability: | Prometheus, Grafana, OpenTelemetry, Jaeger, ELK Stack (Elasticsearch, Logstash, Kibana) |
| Databases: | MySQL, PostgreSQL, SQL Server, DynamoDB |
| Messaging & Streaming: | Kafka, RabbitMQ, AWS SNS/SQS |
| Architecture & Methodologies: | Microservices, DevSecOps, Clean Code, C4 Model, TDD, Agile (Scrum) |

Professional Experience

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| Software Engineer Mastercard | Jan 2023 – Present |
| <ul style="list-style-type: none">• Built cloud-native applications using Java (Spring Boot) and React.js, improving transaction speed by 30% across Mastercard’s digital payment platforms used by over 10 million users.• Designed RESTful APIs to streamline internal service communication, increasing data consistency and reducing API response times by 35%.• Managed data access with Spring Data JPA, Hibernate, and AWS RDS/DynamoDB, supporting 500K+ daily transactions while reducing latency by 20%.• Implemented secure authentication using OAuth2, JWT, and OpenID Connect, ensuring PCI-DSS compliance and protecting user data.• Containerized 20+ microservices with Docker and orchestrated them using Kubernetes (EKS) and Helm, improving deployment reliability and consistency.• Used Terraform to provision reproducible AWS infrastructure, reducing manual setup time and enabling rapid environment creation.• Developed CI/CD pipelines with Jenkins and GitHub Actions, reducing deployment cycles from 2 weeks to 1 and catching 60% more vulnerabilities with Snyk and SonarQube.• Integrated Prometheus and Grafana for real-time monitoring and OpenTelemetry with Jaeger for distributed | |

tracing, cutting incident resolution time by 45%.

- Boosted test coverage from 60% to 87% by expanding JUnit and Mockito test suites and incorporating Cypress for UI testing.
- Worked closely with QA, DevOps, and Product teams in Agile sprints, helping achieve 95% of sprint goals and accelerating time-to-market for new features.

Full Stack Java Developer | Capgemini

Aug 2019 – July 2021

- Delivered enterprise banking solutions using Java, Spring MVC, and Angular, automating workflows and reducing processing time by 50%.
- Built scalable REST APIs and decoupled monolithic systems using AWS API Gateway, accelerating third-party integrations by 40%.
- Optimized database design and queries on MySQL and SQL Server, improving report generation speed by 35% for large datasets.
- Developed responsive UIs with TypeScript, Material-UI, and HTML5, increasing accessibility compliance and improving user satisfaction scores by 20%.
- Integrated Kafka and AWS SNS/SQS to implement event-driven architecture, doubling the system's throughput during high-load scenarios.
- Wrote 300+ unit and API tests using JUnit, Mockito, Postman, and Cypress, reducing post-release defects by 60%.
- Deployed services with Apache Tomcat behind Nginx, and used canary deployments to minimize release-related disruptions.
- Led CI/CD initiatives using Maven, Gradle, and Git workflows with SonarQube, achieving a 90% pass rate on code quality checks.
- Centralized logs using the ELK stack, cutting production issue triage time by 50% through enhanced diagnostics
- Documented systems with the C4 model and mentored 5+ junior developers, helping them become productive within 2 sprints.

Education

Master of Science in Computer Science

Aug 2021 – May 2023

University of New Haven, Connecticut, USA

Bachelor of Engineering in Computer Engineering

June 2017 – Oct 2020

University of Mumbai, India