

Shiva Krishna Nangunuri

Software Engineer

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SUMMARY

Dedicated Software Engineer with over 3 years of experience designing, developing, and deploying web and cloud-based applications. Proficient in Java, Spring Boot, Python, Django, Angular, React.js, RESTful APIs, and AWS. Skilled in microservices development, performance optimization, and creating user-centric solutions. Adept at implementing Agile methodologies, CI/CD practices, and robust security standards.

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python, SQL

Frameworks & Tools: Spring Boot, Hibernate, Flask, Django, Node.js, React.js, Angular, Bootstrap, jQuery

Cloud Technologies: AWS (EC2, S3, Lambda, RDS, DynamoDB), Kubernetes, Terraform

Databases: PostgreSQL, MySQL, MongoDB, Oracle

DevOps Tools: Jenkins, Docker, Git, Maven, Ansible

Testing & Monitoring Tools: JUnit, Mockito, Selenium, Postman, CloudWatch, Datadog, Splunk

Methodologies: Agile, Waterfall.

EDUCATION

Master of Science (MS) in Computer Information Systems

Jan 2023 - Dec 2024

University of Houston-Clear Lake – Texas, USA

Bachelor of Technology(B-Tech) in Information Technology

Aug 2018 - Jun 2022

Jawaharlal Nehru Technological University-Hyderabad, IN

PROFESSIONAL EXPERIENCE

Software Developer

Oct 2020 - May 2022

BNP Paribas | Mumbai, IN.

- Designed and implemented full-stack applications using ReactJS, Java, and PostgreSQL.
- Developed secure REST APIs for payment systems, achieving PCI DSS compliance and reducing API response latency by 25%.
- Automated AWS resource provisioning using Terraform, optimizing cloud infrastructure setup.
- Enhanced system performance by implementing Redis caching and optimizing SQL queries.
- Integrated Spring Boot applications with Prometheus and Grafana for real-time performance monitoring

Key Achievements:

- Established coding best practices, reducing code review turnaround time by 30%.

- Designed an automated test suite with JUnit and Mockito, detecting 30+ critical issues early.

Environment: Java 11, J2EE, AngularJS, React JS, HTML 5, CSS 3, JavaScript, Hibernate, JPA, Spring Boot 2.x, Spring Framework 5.x (including Spring MVC, Spring Security, Spring Data JPA, Spring Integration, Spring Cloud), Spring Web Flux, Spring Cloud Netflix, Apache Kafka 3.x, Apache Camel, AWS, Hibernate, JUnit 5 and Mockito, PostgreSQL, MongoDB, Docker, Kubernetes, Jenkins, Git, Splunk, OAuth 2.0, WebSocket's, YAML, Swagger and Postman, Apache Kafka Streams.

Software Developer Engineer in Test

May 2022 - Jan 2023

Sapiens | Bangalore, IN

- Automated testing using JUnit, Selenium, and REST Assured, achieving 90% test coverage.
- Developed microservices for insurance applications, increasing scalability by 50%.
- Improved testing efficiency by 25% through optimized test environment setups.
- Implemented multi-threading and asynchronous API calls, boosting application performance.

Key Achievements:

- Reduced data processing time by optimizing queries and implementing Redis caching.
- Conducted training sessions for 10+ team members on test coverage strategies.

Environment: Java 11, JUnit 5, Mockito, Selenium WebDriver, Cucumber, TestNG, REST Assured, SOAPUI, Postman, Swagger, Apache JMeter, Jenkins, Docker, Kubernetes, Redis, ANT, PostgreSQL, MongoDB, AWS (ECS, S3, RDS), YAML, OAuth 2.0, JSON, XML, RESTful APIs, SOAP Web Services, Git, Apache Kafka.

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate
- Java (NPTEL)
- DevOps Professional (PagerDuty & LinkedIn)
- Python Certification (Hacker Rank)
- Cybersecurity (CISCO)

PUBLICATIONS

Smart student attendance system based on facial recognition and machine learning
Springer Nature Singapore, IOT with Smart Systems: Proceedings of ICTIS 2022, Volume 2

Proctoring System for Remote Users Based on Machine Learning Techniques
Springer Journal, ICT Systems and Sustainability: Proceedings of ICT4SD 2022

PROJECTS

Automated Payment Processing System

- Tools Used: Java, Spring Boot, PostgreSQL, Redis, Prometheus, Grafana
- Enhanced API response time by 25% using optimized SQL queries and caching.

Insurance Microservices Platform

- Tools Used: Java 11, AWS ECS, REST APIs
- Developed microservices to scale insurance operations by 50%.

ACHIEVEMENTS & INVOLVEMENT

- Student Ambassador for training and placements for the InfyIQ program at VBIT, Hyderabad • Infosys
- IIC Coordinator for placement cell and research and project development at VBIT, Hyderabad • VBIT
- Participated in the UiPath PowerUps Automation Hackathon, hosted by UiPath, Bengaluru, Sep'19