# Rohan Komirishetty

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## SUMMARY

Software Engineer with around 7 years of experience in designing, developing, and deploying scalable enterprise applications across web and cloud environments. Proficient in Java, JavaScript, TypeScript, and SQL, with strong expertise in Spring Boot, Spring MVC, Spring Security, Hibernate, JPA, and Microservices for back-end development. Hands-on experience with MySQL, PostgreSQL, etc., delivering optimized data-driven solutions. Adept in AWS, Azure, and GCP for cloud-native development, deployment, and scaling. Experienced in Docker, Kubernetes, and Jenkins to streamline CI/CD pipelines and DevOps practices.

## SKILLS

**Programming Languages:** Java, JavaScript, TypeScript, SQL
**Frameworks:** Spring Boot, Spring MVC, Spring Security, Hibernate, JPA, Microservices, Node.js, Express.js, JSF
**Front-End Technologies:** React.js, Angular, JSP, JSTL, Bootstrap, jQuery, AJAX, Redux
**Back-End Technologies:** Java EE, Servlets, JDBC, RESTful APIs
**Databases:** MySQL, PostgreSQL, Oracle, SQL Server, MongoDB
**Cloud Platforms:** AWS, Azure, GCP

**DevOps & CI/CD & Other Tools:** Docker, Kubernetes, JWT, Jenkins, Git, GitHub, GitLab, Maven, Gradle, OAuth 2.0
**Testing Tools:** JUnit, Mockito, Postman, Selenium, JMeter
**Web Technologies:** HTML5, CSS3, JSON, XML
**IDE & Tools:** IntelliJ IDEA, Eclipse, Visual Studio Code, NetBeans
**Project Management:** Jira, Confluence, Agile/Scrum, SDLC, Waterfall

## EDUCATION

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| **Masters in Information Systems \|** George Mason University, Fairfax, VA | **May 2021** |
| **BE in Computer Science \|** Vidya Jyothi Institute of Technology, Hyderabad, India | **May 2019** |

## EXPERIENCE

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| **CloudNova Technologies** | **Reston, VA** |
| **Lead Software Engineer** | **Jul 2021 - Present** |

- Spearheaded migration of high-throughput Java monolith to AWS Lambda and SQS, optimizing concurrency and cold start latency; achieved 10x throughput increase and 30% cost savings via event-driven autoscaling.
- Planned and deployed a CSPM platform across multi-region AWS accounts, enhancing compliance visibility and reducing security misconfigurations by 40% through real-time alerting with Elasticsearch and automated triggers.
- Designed and implemented a compliance automation framework in Python and Go, introducing asynchronous workflows and persistent caching to cut assessment cycle times by 40%.
- Led development of a proactive risk evaluation service integrating containerized Open Policy Agent (OPA) with CI/CD pipelines, enabling policy validation of cloud templates before deployment and lowering release rollbacks by 25%.
- Architected a real-time anomaly detection platform with Elasticsearch ML, graph queries, and event-driven pipelines, boosting threat detection precision by 35% while reducing false positives.
- Built a self-service data governance portal using PostgreSQL, MongoDB TTL, and AWS S3, automating retention rules and trimming unnecessary data growth by 30%.
- Directed a cross-functional team to optimize AWS storage and compute usage, achieving an estimated 20% cost reduction across staging and production environments.
- Mentored junior engineers on best practices in Python concurrency, distributed systems, and secure coding, improving code quality and reducing defect density in production releases.
- Introduced test automation frameworks (JUnit, Cucumber, Selenium) into CI/CD pipelines, cutting post-deployment bugs by 30% and accelerating regression testing cycles.
- Transitioned legacy monolithic systems to ECS (Fargate) with Docker, implementing ECS service autoscaling to support a 5x increase in daily API traffic.
- Architected an AI-driven compliance assistant by integrating large language models with AWS APIs, Elasticsearch, and custom licensing workflows, enabling self-service policy validation and accelerating customer onboarding by 40%.
- Authored API documentation and architecture diagrams, accelerating developer onboarding by 20% and reducing incident resolution times.

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| **Exert Infotech** | **India** |
| **Software Engineer** | **Jan 2018 - Jul 2019** |

- Developed and deployed scalable enterprise applications using Java, Spring Boot, Microservices, and Hibernate, improving system performance by 30%.
- Considered and optimized RESTful APIs and Node.js and Express.js services, supporting real-time data exchange across distributed systems.
- Engineered database solutions with MySQL, PostgreSQL, Oracle, and MongoDB, reducing query response times by 40% through indexing and schema optimization.
- Implemented CI/CD pipelines with Jenkins, Docker, Kubernetes, Git, and Maven, accelerating release cycles by 35% and improving deployment reliability.
- Collaborated in Agile/Scrum teams, contributing to sprint planning, backlog grooming, and delivering high-quality code within tight deadlines.
- Integrated backend systems with third-party APIs and internal services via RESTful endpoints, SOAP web services, and JSON/XML payloads, ensuring secure and reliable data exchange.
- Implemented security best practices in Java applications, including JWT authentication, OAuth 2.0, and role-based access control, ensuring compliance with internal policies.
- Conducted unit, integration, and load testing with JUnit, Mockito, Selenium, Postman, and JMeter, reducing post-release defects by 28%.