

Rohan Komirishetty

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SUMMARY

Senior Backend Engineer with 7 years of experience designing and scaling cloud-native SaaS platforms. Expert in Java/Python microservices and AWS serverless architectures (Lambda, ECS, SQS). Proven success in modernizing monoliths, delivering FinOps innovations in cost visibility and optimization and enhancing CSPM/threat-detection engines. Recognized for driving 10× throughput, 15–30% cost savings, 99.99% uptime, and 40% faster compliance while mentoring teams and advancing DevSecOps 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

Masters in Information Systems | George Mason University, Fairfax, VA

May 2021

BTech in Computer Science | Vidya Jyothi Institute of Technology, Hyderabad, India

May 2019

EXPERIENCE

CloudNova Technologies

Reston, VA

Lead Software Engineer - Backend

Jul 2021 - Present

- Modernized Java monolith into **Spring Boot 3.3 microservices** on **AWS Lambda, SQS, and ECS/Fargate**. Implemented **event-driven autoscaling** and **rightsizing**, boosting **throughput 10×** and cutting **costs 30%**.
- Architected CloudCatcher's CSPM backend, an **agentless misconfiguration detection engine** with **severity-based remediation**. Delivered **40% greater asset visibility**, **30% fewer incidents**, and ensured **audit-ready compliance**.
- Engineered **ingestion/ETL pipelines** in **Python/Java** with **PostgreSQL/MongoDB** and Elasticsearch, processing **1M+ records/day**. Applied **memory-efficient data structures** (hash maps, concurrent queues) and **partitioned indexes**, cutting **query times by 50%** and **compliance assessments by 40%**.
- Designed and deployed **real-time anomaly/threat detection** using **Elasticsearch ML** and **graph algorithms**, increasing **detection precision 35%** and cutting **breach-response time 40%** across enterprise workloads.
- Instituted **shift-left IaC governance** by embedding **Open Policy Agent (OPA)** into CI/CD pipelines, scanning **20+ template types**. Enforced **pre-deployment compliance** and reduced **misconfiguration rollbacks by 25%**.
- Implemented **FinOps modules** unifying **AWS cost visibility**, **role-based reporting**, **workload tagging**, **budget tracking** with **alerts/forecasting**, and **MSP margin management**; cut **overage incidents by 30%**, improved **forecast accuracy by 25%**, and delivered **15–20% cost savings** across enterprise clients.
- Automated **rightsizing**, **idle-resource cleanup**, and **S3 tiering** using **greedy algorithms** and **min-heap priority queues**. Generated **RI/savings-plan** recommendations, delivering **15–20% AWS cost savings** for clients.
- Integrated AWS Marketplace licensing and onboarding into CloudCatcher, enabling **SaaS distribution** with **subscription billing** and **reporting**. Shortened partner **onboarding by 40%** and expanded adoption to **50+ enterprise customers**.
- Developed an AI-powered **compliance assistant** and WAFR (well-architected-framework-review) **chatbot** using **LLMs + AWS APIs**, providing **self-service policy validation** and accelerating onboarding by **40%** for **200+ enterprise clients**.
- Optimized UI-facing **AWS Lambda APIs** through indexing, **LRU caching**, **async queues**, and **SnapStart optimization**; reduced **DB query times by 50–80%**, cut **cold starts by 10×**, and lowered **p95 latency to < 500ms**.
- Containerized services with **Docker/ECR** and orchestrated on **ECS Fargate**, enabling **5× transaction growth** and **99.99% API uptime**, while reducing **technical debt** in a modernized microservices architecture.
- Spearheaded **FinOps strategies** (ARM migration, lifecycle policies, log retention, reserved instances) that reduced **AWS costs 15–20%** and improved **long-term cost governance**.
- Mentored **15+ engineers** in concurrency and secure coding practices, boosting **team productivity by 20%** and improving **security compliance** across all development teams.
- Led DevOps initiatives, building **CI/CD pipelines** (Bitbucket, AWS CodePipeline) with **SAST/DAST** and **canary/blue-green deployments**. Achieved **99.95% deployment success** and released software **25% faster**.

Exert Infotech

India

Software Engineer

Jan 2018 - Jul 2019

- Developed **Java microservices** with **Spring Boot & Hibernate**, boosting system **performance by 30%** across **10+ enterprise modules**.
- Designed **RESTful APIs** and **Node.js/Express services** enabling **real-time data exchange** across **distributed systems** and **3+ databases**, supporting **thousands of daily transactions**.
- Implemented **JWT/OAuth2 security**, **database indexing**, and **load testing** (JUnit, Mockito, JMeter), reducing **production defects by 28%** and improving **release quality**.
- Engineered **database solutions** with **MySQL, PostgreSQL, Oracle**, and **MongoDB**, reducing **query response times by 40%** through **indexing and schema optimization**.
- Built **CI/CD pipelines** (Jenkins, Docker, Kubernetes), accelerating **release cycles by 35%** and improving **deployment reliability** by cutting **rollback incidents by 40%**.