

# PRASAD SHEKHAR NAIK

DevSecOps Engineer

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## PROFESSIONAL SUMMARY

DevSecOps Engineer with over 3.5 years of extensive experience in Java and Spring Boot microservices, specializing in platform security automation and enterprise-grade security implementations. Currently working at Infosys with expertise in DAST/SAST scanning, CI/CD security integration, and API security onboarding. Proven track record in creating secure deployment pipelines and vulnerability management using AWS, Docker, Kubernetes, and Terraform, while maintaining high-availability production environments. Leveraged AI-assisted tools (GitHub Copilot, Gemini) for code migration, automated testing, and pipeline optimization, reducing modernization effort by 40% and improving release quality.

## PROFESSIONAL EXPERIENCE

### Associate Consultant | Infosys Ltd | 08/2024 - Present

- **API Security Scanning:** Performed 42Crunch API security scans on UAT environments and remediated Swagger specification issues and vulnerabilities flagged during testing, improving API compliance and release readiness
- **Vulnerability Remediation:** Remediated security vulnerabilities identified by SonarQube, Fortify, and 42Crunch across multiple microservices through prioritized fixes, reducing security blockers and accelerating production releases
- **Security Automation & Dashboard Integration:** Automated DAST (OWASP ZAP) scanning and integrated DAST results into a centralized vulnerability dashboard, onboarded 30+ services to the dashboard and scheduled regular scans to enable continuous vulnerability tracking across 42Crunch, Black Duck (SCA), Fortify, and DAST tools
- **Container Security & Dependency Scanning:** Monitored container security using the Sysdig plugin and performed dependency (SCA) scans with Black Duck; conducted manual security reviews prior to API onboarding to ensure minimal vulnerabilities at release
- **Code Quality Enhancement:** Increased code coverage to 90% by adding unit/integration tests and automating test generation using AI tools

- **Technology Migration:** Migrated services from Javax to Jakarta using AI-assisted tools (GitHub Copilot, Gemini), achieving seamless modernization with minimal downtime
- **Production Issue Resolution:** Fixed SIT, UAT, and production issues by collaborating with QA and DevOps teams, accelerating release cycles
- **Infrastructure Maintenance:** Upgraded Docker images and resolved pod failures, Jenkins pipeline issues, and deployment errors
- **Security Tool Management:** Performed Fortify upgrades and resolved critical vulnerabilities, maintaining security gates for smooth production deployments
- **Proactive Patch Management:** Led dependency vulnerability remediation efforts, performing daily checks and applying security patches to avoid release blockers

### **Associate Engineer | Virtusa | 12/2021 - 08/2024**

- **Secure API Development:** Developed secure REST APIs in Spring Boot with HMAC/RSA validation for payment processing systems
- **Third-Party Integration:** Integrated third-party APIs (Trustly), implemented business logic and reusable service components
- **Cloud Deployment:** Delivered deployments using EC2 and S3 with minimal downtime
- **Agile Development:** Participated in Agile ceremonies and production release cycles

## **EDUCATION**

B.Tech in Electronics and Communication Engineering | Dr. Ambedkar Institute of Technology | 08/2017 - 05/2021 | Bengaluru

Class 12 (PCMCs) | H.B Govt P.U College, Nellikeri, Kumta | 05/2015 - 05/2017 | Kumta

## **CERTIFICATIONS**

- Oracle Certified Associate, Java SE 8
- AWS Certified Developer – Associate
- DevOps Beginner to Advanced (Udemy)

## **TECHNICAL SKILLS**

- **Programming & Scripting:** Java, Spring Boot, Bash, Linux

- Security & DevSecOps: DAST, SAST, SCA, OWASP ZAP, SonarQube, Fortify, 42Crunch, Black Duck, Sysdig, Container Security, Vulnerability Management, Security Scanning, Compliance Automation
- CI/CD & Automation: Jenkins, GitHub Actions, GitOps, Blue-Green Deployment, Pipeline Automation, Infrastructure as Code (IaC), Automated Testing, Quality Gates, Maven, Helm, Terraform, Ansible
- Cloud & Infrastructure: AWS (ECS, EC2, S3, IAM, VPC, Route 53, CloudFront), Docker, Kubernetes, Auto Scaling, Load Balancing, Beanstalk
- Development Tools: Git, GitHub, GitLab, Eclipse, IntelliJ IDEA, Visual Studio Code
- API & Integration: REST APIs, Postman, Swagger, API Gateway
- Databases: MySQL
- Testing & Quality Assurance: JUnit
- Project Management: Agile Methodology, JIRA
- Monitoring & Observability: AWS CloudWatch, Prometheus, Grafana
- Networking & DNS: DNS, VPC, Routing, Security Groups

## PROJECTS

### Cafe Management App

**Technologies:** Full-stack development using Java Spring Boot, Angular, MySQL, AWS EKS, DevSecOps

- Designed and deployed a full-stack Cafe Management Application using Java Spring Boot backend and Angular + MySQL for AWS EKS using a complete DevSecOps pipeline with separate pipelines for frontend & backend
- Implemented GitOps workflows with GitHub Actions for Code → Build → Scan → Deploy → Notify automation, ensuring seamless deployments and rollback capabilities
- Integrated SonarQube, Trivy, Docker Scout for SAST, dependency checks, and image vulnerability scanning to establish quality gates and security-first pipelines before every deployment
- Automated Docker build & push to AWS ECR, Kubernetes deployments via Helm charts, with Ingress + Route53 DNS mapping for seamless frontend-backend communication
- Enabled end-to-end observability using AWS CloudWatch and email alerts for pipeline monitoring
- Achieved production-grade deployments with a fully automated, security-compliant workflow integrating code quality, vulnerability scans, and continuous delivery

## CI/CD Automation on AWS ECS & ECR

**Technologies:** AWS ECS, ECR, GitHub Actions, Jenkins

- Built CI/CD pipeline automating build, test, image packaging, and blue-green ECS deployment
- Integrated GitHub Actions and Jenkins to trigger pipeline stages with rollback support
- Used ECR for container registry and EC2-based agents for secure build isolation

## GitOps Infra with Terraform, Kubernetes, and Helm

**Technologies:** Terraform, Kubernetes, Helm, AWS

- Provisioned AWS infrastructure (ECS, ECR, IAM, VPC) using Terraform and deployed microservices via Helm charts
- Built CI/CD pipelines with GitHub Actions for infrastructure provisioning, application deployments, and rollback automation, enabling zero-downtime deployments
- Integrated SonarQube into CI/CD pipelines to enforce code quality gates before production deployments
- Streamlined deployments with GitOps-based version control, ensuring every infrastructure and application change was auditable, reproducible, and secure

## Microservices Architecture Demo

**Technologies:** Java Spring Boot, Docker, Microservices, API Gateway, Service Discovery

- Led the development of a microservices-based architecture for an application, integrating Order, Product, Inventory, and Notification Services
- Enabled seamless communication between services, leveraging synchronous and asynchronous messaging
- Implemented resilience features such as API Gateway, Service Discovery, and Circuit Breaker for fault tolerance
- Containerized each microservice using Docker and orchestrated deployment with Docker Compose for scalability and portability