ATHARVA HANKARE

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SUMMARY

Full-stack engineer with 2+ years of experience building scalable backend systems and enterprise cloud infrastructure. Specializing in Java, Python, Spring Boot, React, and AWS, with hands-on expertise in microservices, CI/CD automation, and Infrastructure as Code. Delivered systems serving 1M+ users and reduced infrastructure provisioning time from weeks to minutes.

SKILLS

- **Languages & Frontend:** Java, Python, JavaScript (ES6+), TypeScript, SQL, React, Next.js, Redux, Tailwind CSS
- **Backend, Cloud & Architecture:** Spring Boot, Spring MVC, Hibernate, REST APIs, GraphQL, gRPC, Redis, AWS, Docker, Machine Learning, Jenkins, Kubernetes, Terraform, Kafka, CI/CD, Caching, Microservice Architecture, Distributed Systems
- **Security, Testing & Tools:** OAuth2, JWT, Spring Security, Role-Based Access Control (RBAC), Junit, Mockito, Postman, Git, Jira

EXPERIENCE

Ribbon Communications | ***Software Engineer Co-Op*** **Sep 2025 - Dec 2025**

- Owned end-to-end development of an enterprise infrastructure automation platform using AWS CloudFormation, Python, and CodePipeline, reducing Active Directory lab provisioning from 4 weeks to under 30 minutes with full CI/CD automation.
- Designed multi-stack IaC architecture provisioning 20+ AWS resources per environment, enabling repeatable deployment across environments with cross-stack dependency resolution, drift detection, and automated rollback in under 15 minutes.
- Engineered fault injection pipelines for an AI-driven SRE system using Python, Kubernetes and AIOpsLab, enabling automated detection and mitigation testing across microservices with failure identification in under 30 seconds.

LTIMindtree | ***Senior Software Engineer*** **Sep 2022 - Jun 2024**

- Developed a cloud-native premium calculation engine using Java, Spring Boot, and RESTful APIs, serving 1M+ users with 3,000+ concurrent sessions during peak enrollment through Redis caching, idempotency handling, and asynchronous processing.
- Built an enterprise chatbot system using Java, Spring Boot, and WebSockets that reduced support ticket volume by 60% and decreased user resolution time by 15% through NLP algorithms for policy inquiries and enrollment workflows.
- Optimized payment processing during peak enrollment periods using Spring Batch and Redis, aggregating 500+ transactions per batch and processing more than 50,000 daily transactions while reducing microservice API calls by 40%.
- Implemented end-to-end CI/CD pipelines using Jenkins and GitHub Actions, automating build, test, and deployment workflows to reduce deployment cycles from monthly to weekly and cut deployment time from hours to minutes across 8+ microservices on AWS.
- Architected cloud infrastructure for production workloads using AWS ECS Fargate, RDS (multi-AZ), S3, and Docker, achieving high availability through auto-scaling policies, automated failover, and rolling deployments with health-check-based rollbacks.
- Designed real-time business intelligence dashboards using React to deliver actionable KPIs driving a 20% increase in profits.

Software Engineer Intern **Jun 2022 - Sep 2022**

- Developed an internal training quiz system using React, Spring Boot, RESTful APIs, JWT authentication, and CI/CD pipelines, automating assessments and increasing employee participation across engineering teams, which streamlined the evaluation workflow.
- Built an analytics dashboard using React to track performance, enabling managers to improve training completion rates by 30%.
- Delivered production-ready full-stack application in 12 weeks by owning end-to-end development with cross-functional teams.

PROJECTS

Autonomous SRE Agent System **Sep 2025 - Dec 2026**

- Designed and implemented an autonomous agentic SRE system to proactively validate reliability of distributed microservices by injecting controlled infrastructure and service-level failures in production-like environments.
- Built fault-injection pipelines using Python and Kubernetes to simulate pod crashes, resource exhaustion, and network faults, enabling automated detection and mitigation testing with sub-30-second failure identification.
- Integrated the SRE agent with CI/CD workflows to continuously test system resilience during deployments, reducing manual effort.

EDUCATION

Northeastern University **2026**
Master of Science, Software Engineering Systems *Boston, MA*

University of Mumbai **2022**
Bachelor of Engineering, Computer Engineering *Mumbai, INDIA*

Government Polytechnic, Mumbai **2019**
Diploma, Computer Engineering *Mumbai, INDIA*