

# ATHARVA HANKARE

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## SUMMARY

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Software Engineer with 2+ years of backend and cloud experience, specializing in Java, Spring Boot, and AWS. Built and shipped production systems at scale across financial and telecom domains. Experienced in integrating AI-driven features into microservice architectures and automating cloud infrastructure provisioning on AWS. MS candidate at Northeastern University, graduating 2026.

## SKILLS

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**Languages & Frameworks:** Java, Python, JavaScript (ES6+), TypeScript, SQL, React, Next.js, Redux, TailwindCSS

**Backend & APIs:** Spring MVC, Spring Boot, Hibernate, REST APIs, Redis, Spring Batch, LangChain, OpenAI, GraphQL

**Cloud & DevOps:** AWS (ECS Fargate, RDS, S3, CloudFormation, CodePipeline), Kubernetes, Docker, Jenkins, GitHub Actions

**Security & Tooling:** OAuth2, JWT, Spring Security, RBAC, JUnit, Mockito, Postman, Git, Jira

## EXPERIENCE

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**Software Engineer Co-Op** | *Ribbon Communications, Westford MA* Sep 2025 – Dec 2025

- Designed an AI-driven autonomous SRE agent capable of sub-30-second failure detection across Kubernetes clusters, enabling automated fault detection and remediation across infrastructure and service layers.
- Simulated 15+ controlled failure scenarios, including pod crashes, resource exhaustion, and network faults, using Python, Kubernetes, and Microsoft AIOpsLab to validate automated mitigation and runtime recovery.
- Reduced environment provisioning time from 4 weeks to under 30 minutes by developing an enterprise infrastructure automation platform using AWS CloudFormation, Python, and CodePipeline.
- Architected a multi-stack Infrastructure-as-Code framework provisioning 20+ AWS resources per environment, enabling repeatable deployments with automated rollback, dependency resolution, and drift detection.

**Software Engineer** | *LTM, Mumbai India* Sep 2022 – Jun 2024

- Developed a cloud-native insurance premium calculation engine serving 1M+ users with 3,000+ concurrent sessions by implementing Redis caching, idempotency, and asynchronous processing in Java and Spring Boot.
- Built a chatbot platform using LangChain and OpenAI to implement a RAG pipeline for policy inquiry workflows, reducing support ticket volume by 60% and improving resolution time by 15% through integration with real-time backend microservices.
- Scaled payment throughput to support 50,000+ daily transactions by implementing batch aggregation (500+ per batch) and reducing downstream API calls by 40% using Spring Batch and Redis.
- Implemented CI/CD pipelines across 8+ microservices, accelerating releases from monthly to weekly and reducing deployment time from hours to minutes on AWS using Jenkins and GitHub Actions.
- Architected cloud infrastructure on AWS using ECS Fargate, RDS (Multi-AZ), S3, and Docker, achieving 99.9% uptime through auto-scaling, automated failover, and zero-downtime rolling deployments.
- Developed business intelligence dashboards using React to visualize claims, policy, and payment KPIs for business analysts, directly contributing to a 20% increase in profits.

**Software Engineer Intern** | *LTM, Mumbai India* Jun 2022 – Sep 2022

- Increased training participation across engineering teams by developing an internal quiz platform using React, Spring Boot, REST APIs, JWT authentication, and CI/CD pipelines to automate assessment workflows.
- Built an analytics dashboard using React to track training completion and quiz performance, enabling managers to improve completion rates by 30%.

## EDUCATION

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

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