

# SARALA SHARANAPPA KANAKAGIRI

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## EDUCATION

### NORTHEASTERN UNIVERSITY

Master of Science in Information Systems

(Sep 2023 - May 2025, Boston, MA)

(GPA - 3.52)

Coursework: Network Structures and Cloud Computing, Web Design and User Experience, Database Management and Design, Web Development tools & methods, Agile Software Development, Concepts of Object-Oriented Design

### University Visvesvaraya College of Engineering

Bachelor of Engineering in Computer Science and Engineering

(Aug 2016 - Sep 2020, Bangalore, India)

## PROFESSIONAL EXPERIENCE

### HARMAN INTERNATIONAL (SOFTWARE ENGINEER)

(Oct 2020 - Aug 2023, Bangalore, India)

- Developed cloud-native Java microservices using **Spring Boot** and **Microservices Architecture** on AWS, improving response by 40%.
- Optimized RESTful APIs using **Spring MVC** and **Hibernate**, reducing API latency by 50% and ensuring seamless database interactions.
- Implemented unit and integration testing using **JUnit**, **Mockito**, and **Postman**, achieving **95%** test coverage and reducing bugs.
- Designed and deployed microservices on **AWS** ensuring 99.9% uptime and enabling efficient auto-scaling.
- Secured REST APIs using **Spring Security**, **OAuth2**, and **JWT**, aligning with best practices for enterprise-grade cloud applications.
- Improved database performance by implementing **Redis caching**, reducing query load by **90%** and enhancing system speed.
- Developed full-stack web applications using **Java and React**, while automating **CI/CD** pipelines with **GitHub Actions**, **Jenkins**, and **Terraform**. Integrated **Bash and Python scripts** to manage EC2 provisioning and AMI builds, enabling zero-downtime deployments.

### RAKUTEN INDIA (FULL-STACK INTERN)

(Jan 2020 - Jun 2020, Bangalore, India)

- Developed Java microservices using Spring Boot, reducing processing latency by **45%** and optimizing database transactions.
- Built and maintained RESTful APIs with **Spring WebFlux**, enhancing non-blocking data flow and improving system efficiency.
- Designed and implemented frontend components using **HTML5**, JavaScript (**React**), and **TypeScript**, ensuring seamless UI interaction.
- Integrated **Spring Data JPA** with PostgreSQL and MongoDB, optimizing database queries and boosting read/write speeds by **30%**.
- Led end-to-end feature development, collaborating with cross-functional teams, and launching a scalable marketing automation tool that increased engagement by **30%**.
- Developed report interfaces and data feeds for marketing analytics, with real-time data improving decision-making efficiency.

## TECHNICAL SKILLS

**Programming Languages:** Java, Kotlin, Spring Boot, Node.js, TypeScript, JavaScript, Python, Swift, Shell Scripting

**Frontend Development:** XHTML, CSS, React.js, React Native, Next.js

**Backend Development:** RESTful APIs, Microservices, Event-Driven Architecture (Kafka, SNS)

**Cloud & DevOps:** AWS (Lambda, EKS, S3, CloudWatch, SNS), Terraform, Kubernetes, Docker

**Databases:** MySQL, PostgreSQL, MongoDB, DynamoDB, Redis, Spark, Hadoop

**Infrastructure & Monitoring:** GitHub Actions, Jenkins, CI/CD, Performance Monitoring (AWS CloudWatch), Linux, Unix

**Development Tools:** OpenAPI, Swagger, Gradle, Security Logging

## ACADEMIC PROJECTS

**Cloud Web App DevOps** (AWS, Node.js, PostgreSQL, Terraform, CI/CD)

(Sep 2024 - Dec 2024)

Designed and deployed a cloud-native user management system leveraging **AWS services** for scalability, security, and automation. Developed the backend using **Node.js**, integrating **Amazon RDS (PostgreSQL)** for efficient data storage. Improved system reliability by **implementing Auto Scaling Groups, Elastic Load Balancers, and EC2 instances**, achieving **99% uptime**. Strengthened infrastructure security with **VPC, Route 53, IAM policies**, and automated deployments using **Terraform**. Automated **CI/CD pipelines** with **GitHub Actions**, reducing deployment time by **90%** with custom **Amazon Machine Images (AMIs)**.

**DevConnect** (React Native, TypeScript, Firebase, Redux, WebSockets, Swift)

(Feb 2025 - Mar 2025)

Developed a cross-platform mobile app enabling developers to connect, share posts, and chat in real time using **React Native** and **Firebase**. Integrated **Google Sign-In, Email/Password authentication**, and **WebSockets** for instant messaging, reducing latency by **90%**. Designed a post-sharing system with **Firestore** and implemented push notifications via **Firebase Cloud Messaging (FCM)**. Explored **Swift** and **SwiftUI** for native iOS feature prototyping and performance benchmarking, supporting future expansion into a **native iOS codebase**. Optimized performance with **Redux Toolkit** and enhanced **UI/UX** using **React Navigation** and dark mode support.

## CERTIFICATIONS

- AWS Certified Cloud Practitioner (CLF-C02)** – Dec 2024