

Guhan Santhanam

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Software Engineer with 2+ years' experience in Java, Spring Boot, microservices, RESTful APIs, and cloud, building scalable backend applications with database integration in Agile environments.

EDUCATION

*Master of Science in Information Systems, **Northeastern University*** May 2026

*Master of Computer Applications, **Vellore Institute of Technology*** May 2022

EXPERIENCE

Software Engineer at BNP Paribas Pvt. Ltd. Feb 2022 – Jul 2024

- Managed and enhanced enterprise applications using Java and Spring Boot, ensuring optimal performance, deploying updates, and supporting CI/CD pipelines for smooth feature delivery.
- Engineered automated regression testing tools, cutting manual QA effort by **40%** and boosting overall deployment efficiency.
- Built a standalone Spring Boot microservice with a **hive-and-drone architecture**, adhering to **SDLC best practices** and using **version control systems** (Git, Bitbucket) to streamline access management, reduce administrator workload by **80%**, and eliminate redundant logins across environments.
- Partnered with cross-functional teams in an Agile setup to deliver full-stack features (Java, Spring Boot, Angular, REST APIs), achieving faster production releases with near-zero downtime.
- Awarded **Rising Star** recognition for exceptional performance and contributions to enterprise application development and team productivity.

SKILLS

Programming Languages: Java, JavaScript, TypeScript, Go (Golang), HTML, CSS, Python, C++

Web Frameworks: React Native, NodeJS, Spring Boot, ExpressJS, Angular, Redux, GraphQL, REST

Databases: SQL - MySQL, PostgreSQL, Redis, DynamoDB, NoSQL - MongoDB

Cloud & DevOps: AWS, GCP, Azure, Docker, Kubernetes, Unix, GitHub Actions, Terraform, Linux, CI/CD

Testing & Tools: JUnit, Mockito, API, IntelliJ, Calypso, Git, GitLab, Bitbucket, Jira, Postman, SonarQube

ACADEMIC PROJECTS & ACHIEVEMENTS

Cloud-Native Enterprise Application *with Automated Infrastructure*

- Built a scalable, multi-tenant cloud platform on **AWS** and **GCP** with Spring Boot, leveraging EC2 autoscaling, RDS, CloudWatch metrics, and automating VM/database provisioning using Terraform, Packer, and GitHub Actions CI/CD.
- Implemented serverless, event-driven architecture with AWS Lambda, GCP Cloud Functions, Pub/Sub, configured a custom domain with Route 53, and achieved zero-downtime deployments.

MGEN 2025 Hackathon – Northeastern University (**Winner**)

- Developed a secure ReactJS and ExpressJS platform enabling MSLs to train high-stakes conversations, implementing session-based authentication and robust user access control to protect sensitive data, while optimizing interactive simulations to enhance training efficiency and engagement.

SAGA - *Personal Journal (Android App)*

- Developed Saga – the Space to Unveil, an Android application for recording daily journal entries using Java, Kotlin, Android Studio, and Firebase for real-time database synchronization and storage, enhancing security with user authentication for reliable multi-user journaling.