

Nithya Alagupandian

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Professional Profile

Experienced Java Backend Engineer with 6.5+ years of experience building and modernizing enterprise-grade backend systems using Java and Spring Boot. Strong expertise in RESTful API design, microservices architecture, PostgreSQL, and secure, scalable application development for large clients including Ford Motor Company, Fiserv. Proven experience in legacy system migration, resolving code quality and security issues using SonarQube and 42Crunch in Agile environments.

Technical Skills

Java 8, Java 21	Databases: PostgreSQL, Oracle DB	Build Tools: Maven, Gradle
Spring Boot, JPA Repository	Cache: Redis	Version Control: GIT, SVN
Microservices	GCP: GCS, Cloud Run	SonarQube, Fortify
REST API, JWT	CI/CD Pipelines: Docker, Jenkins	42 Crunch, Conformance Scan
GitHub Copilot AI (Claude code, GPT)	Testing Tool: Junit, Swagger, Postman	IDE: Eclipse, IntelliJ, VS Code

Experience

COGNIZANT TECHNOLOGY SOLUTIONS

ELCOT, Chennai, TN

Project: Ford Motors – Global Capacity Planning (GCP)

October 2025 – Present

- Migrated a legacy Struts-based application to a modern Spring Boot framework with PostgreSQL database and transformed the monolithic architecture into Microservices to improve scalability and maintainability.
- Developed RESTful APIs, including **multipart file upload endpoints**, for backend file handling and management and implemented JUnit test cases, and utilized tools like 42Crunch and SonarQube to enhance API security, code quality, and reliability.
- Implemented **asynchronous processing and scheduled jobs**, uploading files to **Google Cloud Storage** upon successful job completion and executing workloads using **GCP Cloud Run Jobs**.

Project: Ford Motors – Incentive Single Input System (ISIS)

January 2024 – September 2025

- Developed existing functionalities from a monolithic legacy Struts application to Spring Boot microservices, while preserving functionality and improving scalability and maintainability.
- Implemented RESTful APIs with comprehensive JUnit unit tests and used 42Crunch and SonarQube to enforce API security standards, detect code issues, and ensure reliable, maintainable backend services.
- Streamlined CI/CD processes by deploying microservices on Google Cloud Platform (GCP) using Tekton pipelines and leveraging GitHub Copilot for efficient development workflows.

IBYTECODE TECHNOLOGIES PRIVATE LIMITED

Chennai, TN

Project: Fiserv – Bank of America (BOFA - Mobile Banking API Platform)

January 2022 – December 2023

- Implemented **multi-language (English/Spanish) support** using Java, JSP, JavaScript, and resource bundles, enabling dynamic language switching and personalized user experience.
- Externalized UI text and labels through **Java-based internationalization (i18n)**, improving localization, maintainability, and ease of adding new languages.
- Implemented request validation logic for Spring Boot REST APIs across modules such as Account, Recipient, Payment, and Audit to ensure data integrity and prevent invalid or malformed requests.
- Participated in code reviews and release activities, contributed to database schema design, and provided production support by analyzing and resolving issues.
- Remediated security vulnerabilities identified by Fortify scans by analyzing findings, applying secure coding fixes, and ensuring compliance with application security standards.

Project: Fiserv – UVM Vulnerability Fixing (Legacy EJB Application)

April 2021 – December 2021

- Analyzed application security findings using **SAST (Fortify)** and **DAST (Web-Inspect)** to identify and fix vulnerabilities such as **input validation issues, null pointer dereferences, insecure logging, hardcoded credentials, and missing authorization checks.**
- Implemented secure coding fixes for vulnerabilities reported by Fortify, Web-Inspect, and aligning applications with security and compliance standards.
- Reviewed application source code to validate findings and identify false positives, reducing unnecessary remediation effort.

Project: Braincubate (Mobile Game for Kids)

July 2020 – April 2021

Google Playstore Link: <https://play.google.com/store/apps/details?id=tech.appstra.braincubate>

- Developed responsive Android UI screens using XML and implemented application functionality using Java to support multiple device sizes and layouts.
- Integrated REST APIs using Retrofit HTTP client to support core game functionality and data exchange.
- Enabled Firebase Cloud Messaging (FCM) push notifications for user achievements and important alerts.

Project: Homeevents (Event Services Marketplace App)

June 2019 – June 2020

Google Playstore Link: <https://play.google.com/store/apps/details?id=in.homeevents.vendor>

- Developed responsive Android UI screens using XML and Java, ensuring proper layout scaling across devices.
- Integrated REST APIs using Retrofit to enable core features such as vendor listings, bidding, and order tracking.
- Implemented Firebase Analytics to monitor user behavior, track feature usage, and analyze crash reports.

Education

RVS College of Engineering and Technology

Dindigul, TN

Master of Computer Applications (MCA)

August 2017 – May 2019

- Graduated with CGPA of 8.0

GTN Arts and Science College

Dindigul, TN

Bachelor of Science in Computer Science (B.Sc. Computer Science)

September 2014 – April 2017

- Secured CGPA of 73.8 %

Achievement & Awards

- Earned **“WOW Award”** for outstanding performance and exceptional contribution to project delivery in Q4 2021 by Expleo Solutions.
- Certification in **“Core Java & Android Programming”**, Tech Stack Technology (August 2018 – December 2018).