

Venkata Karthik Goud Gadudula

Java Backend Developer | Spring Boot | Microservices | REST APIs | SQL

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PROFESSIONAL SUMMARY

Java Backend Developer with approximately 3 years of professional software engineering experience building Spring Boot REST APIs, microservices, and database-backed applications using MySQL, PostgreSQL, and MongoDB. Contributed to monolith-to-microservices modernization at USAA, building independent services and validating migrated API behavior against legacy implementations using consistent test data. Additional experience includes backend development at CVS Health and Stream Lead experience at Cisco, leading a team through application security remediation addressing 3,000+ vulnerabilities.

TECHNICAL SKILLS

Languages: Java, SQL

Backend & Frameworks: Spring Boot, Spring MVC, Spring Data JPA, Spring Security, OAuth, REST APIs, Microservices, Apache Struts, Object-Oriented Programming (OOP)

Databases: MySQL, PostgreSQL, MongoDB

Cloud & DevOps: AWS S3, Maven, Jenkins, CI/CD

Testing & Version Control: JUnit, Postman, Git, Bitbucket

Application Security: Secure Coding (SQL Injection & XSS Prevention), Java/JavaScript Vulnerability Remediation, Checkmarx, Token-Based Authentication

PROFESSIONAL EXPERIENCE

Tata Consultancy Services — Software Engineer

Jul 2021 – Aug 2026

On approved educational leave from Aug 2024 until resignation in Aug 2026 while completing a master's degree. Client engagements below.

USAA — Software Engineer, Monolith-to-Microservices Migration

Sep 2023 – Jul 2024

- Decomposed tightly coupled modules of a legacy monolithic Java application into independently deployable Spring Boot microservices, as one of five backend engineers on a 15-member cross-functional migration team.
- Built independent REST APIs/services during the migration, tested them in Postman, redirected corresponding calls from the development branch to the new APIs, compared responses against the legacy implementation using identical test data, and debugged discrepancies when results differed.
- Refactored hardcoded application configuration into externalized, property-based configuration, improving maintainability across environments.
- Implemented inter-service communication using RestTemplate within a Controller-Service-Repository architecture.
- Diagnosed and resolved CI/CD pipeline failures by analyzing build logs and dependency/version issues, and supported production issues following the migration cutover.
- Collaborated with onsite engineering teams across time zones during sprint planning and code reviews.
- Evaluated Java Developer candidates on core Java, Spring Boot, and REST API proficiency through technical interviews, recommending qualified candidates to the Technical Lead.

Cisco Systems — Software Engineer / Stream Lead

Jan 2023 – Aug 2023

- Led a stream of junior developers remediating 3,000+ Java and JavaScript security vulnerabilities identified through Checkmarx within a legacy Apache Struts application, as Stream Lead for one of five application teams.
- Remediated SQL injection and reflected XSS vulnerabilities using parameterized queries/prepared statements and allow-list input validation, applying secure coding practices to address Checkmarx findings.
- Reviewed junior developers' remediation work before pull request submission and helped resolve complex vulnerabilities requiring deeper root-cause analysis.
- Unblocked junior developers on technical issues encountered during remediation work.
- Tracked vulnerability remediation progress and validated local Checkmarx scan results, reporting status in daily client and Scrum meetings.
- Contributed to the team's remediation effort that improved the application's health/performance score from approximately 40% to over 85%.

CVS Health — Software Engineer

Aug 2021 – Dec 2022

- Built Spring Boot REST APIs across Controller-Service-Repository layers, implementing full CRUD functionality for an enterprise healthcare application, as part of a 12–13 person cross-functional team.

- Built a Spring Boot backend workflow for dynamic Excel report generation, processing variable fields from user-requested data, executing business logic and external REST API calls, and mapping returned data into the corresponding Excel fields for download.
- Optimized Excel generation by replacing programmatic workbook construction with reusable AWS S3-hosted templates, dynamically populating request-specific fields into the original template before returning completed files to users.
- Persisted application data using Spring Data JPA across MySQL and PostgreSQL, and separately worked with MongoDB for document-based storage.
- Secured new REST endpoints within the application's existing Spring Security/OAuth implementation, validating authentication and authorization scenarios during development and testing.
- Validated backend services using JUnit test coverage and Postman-driven API testing prior to integration.

Central Michigan University — Student Assistant, IT Development

Jan 2025 – May 2026

- Completed assigned tickets involving updates and enhancements to university web applications, collaborating with CMU IT team members on ongoing development work.
- Tested application and API changes, including Postman-based endpoint testing, to validate assigned updates before completion.

Grepthor Software Solutions — Java Developer Intern

May 2020 – Jun 2021

- Built Java/Spring Boot backend features and REST APIs with CRUD functionality for a CIBIL-based loan eligibility application, persisting application data in MySQL as part of a five-person intern team.
- Worked with candidate profile and CIBIL/credit data to support the application's loan-eligibility processing, validating REST API behavior through Postman testing.

PROJECTS

GaragePulse — Auto Service Mgmt. System (CMU Capstone)

Final Semester, CMU

- Contributed to a desktop garage-management system for a local mechanic, replacing a manual, paper-based process as part of a five-person capstone team; personally developed the Customer Management and Authentication/Login modules.
- Built the Customer Management module using Java, Spring Boot, and MySQL, supporting customer CRUD operations, phone-number-based search, vehicle information, service-history retrieval, and creation of new service requests.
- Implemented the Authentication/Login module using JAAuth/token-based authentication, storing hashed passwords in MySQL and using authentication tokens to identify logged-in staff and their associated roles, including Owner/Admin, Mechanic, and Front Desk.

EDUCATION

Central Michigan University, Mount Pleasant, MI — M.S., Information Systems (GPA 3.9/4.0)

Jul 2024 – May 2026

Sri Indu College of Engineering & Technology, India — B.Tech, Electronics & Communication Engineering

Jul 2017 – Jul 2021

Work Authorization: F-1 OPT with STEM extension eligibility — no sponsorship required for up to 3 years.