

TARUN VEGI

+91 6300145448 | ✉ vegitarun1234@gmail.com | in tarunvegi3 | tarunvegi-dev | tarunvegi3

PROFESSIONAL SUMMARY

Backend Engineer with 3 years of experience building transaction-oriented systems and enterprise applications using **Java** and **Spring Boot**. Experienced in designing microservices, event-driven workflows, high-volume batch processing, and scalable REST APIs for banking and financial domains. Strong foundation in distributed systems, system design, and building reliable backend systems.

TECHNICAL SKILLS

Languages:	Java, C, C++, JavaScript, SQL
Core CS:	Data Structures and Algorithms, Object-Oriented Programming, SOLID Principles, Design Patterns
Backend:	Spring Boot, Spring Batch, Spring Security, Spring Data JPA/Hibernate
Architecture:	REST APIs, Microservices, Event-Driven Systems, Distributed Systems, LLD
Databases:	PostgreSQL, Oracle, MongoDB
Messaging:	Kafka, RabbitMQ
Observability:	Prometheus, Spring Boot Actuator, Micrometer
DevOps & Tools:	Git, Gerrit, Jenkins, Docker, VS Code
Cloud:	AWS, Oracle Cloud
Frontend:	React.js, Next.js, Redux, HTML5, CSS3, JavaScript (ES6+)
AI-Assisted Development:	ChatGPT, GitHub Copilot

PROFESSIONAL EXPERIENCE

Tata Consultancy Services, Mumbai Jun 2023 - present

Backend Engineer

- Contributed to the design and development of a scalable **banking platform** used by tellers and managers to handle **branch-level transactions and workflows**, deployed across 5+ banks in the Asia region with **high availability** and **role-based access control**.
- Designed and developed **transaction-oriented microservices** (Consumer Loan, Account Interest, Limits) using **Java** and **Spring Boot**, translating complex banking workflows into maintainable domain models, service boundaries, and business APIs.
- Analyzed **legacy monolithic banking systems** to understand banking workflows and business rules, and redesigned them into modular **REST APIs** with clear service boundaries and reusable logic.
- Participated in system design discussions involving service decomposition, API design, data ownership, and communication patterns while contributing to the modernization of legacy banking platforms.
- Optimized API performance by refining business logic flows and tuning **Hibernate/JPA queries** with **indexing strategies**, reducing database load and improving response efficiency.
- Designed service integration patterns using **synchronous REST** communication for real-time operations and **asynchronous Kafka-based messaging** for decoupled workflows, balancing consistency, reliability, and scalability requirements across distributed services.
- Developed **high-volume batch processing systems** using **Spring Batch** to handle large-scale financial data workflows with modular and reusable components.
- Validated API contracts using **Swagger-based testing**, ensuring **backward compatibility** and correct handling of business error scenarios.
- Secured backend services using **Spring Security** with **JWT-based authentication** and **role-based authorization**.

- Automated build and deployment pipelines using **Jenkins** and **Gerriit**, improving delivery consistency in **cloud environments**.

Edgroom Pvt Ltd

May 2022 - May 2023

Full-Stack Developer Intern

- Contributed to the development of an educational community platform used by students, teachers, and institutions.
- Modernized the frontend by migrating a legacy PHP-based application to a React.js application, improving maintainability and user experience.
- Built responsive user interfaces using React.js, integrating REST APIs via Axios and implementing client-side state and interaction logic.
- Implemented server-side rendering and routing using Next.js, improving page load performance and SEO optimization.

EDUCATION

IIIT - Srikakulam

Jun 2019 - May 2023

Bachelor of Technology - Computer Science Engineering; **CGPA: 8.46**

ACHIEVEMENTS

- **Star Performer Award (Q1 2026)** – Recognized at Tata Consultancy Services for outstanding performance and significant contribution to project delivery.
- **Special Initiative Awards** – Awarded for active participation and strong performance in internal coding challenges.
- Solved **500+ problems** on LeetCode.

PROJECTS

Wallet Service | Java, Spring Boot, PostgreSQL, RabbitMQ, Docker [GitHub](#) 2026

Designed and implemented a wallet and payment platform focused on transaction consistency, fault tolerance, and reliable inter-service communication.

- Designed and implemented wallet credit, debit, and payment workflows using **Java, Spring Boot**, and **PostgreSQL**, following modular service architecture principles.
- Prevented double spending and concurrent balance inconsistencies using **optimistic locking** and version-based concurrency control.
- Integrated a Payment Service through **REST APIs** and implemented **timeouts**, **retries**, and **idempotent transaction processing** to handle transient failures and duplicate requests.
- Implemented **distributed transaction consistency** using compensation-based workflows, handling partial failures across service boundaries without distributed transactions.
- Built asynchronous compensation processing using **RabbitMQ** and implemented the **Transactional Outbox Pattern** to guarantee reliable event delivery and eliminate dual-write inconsistencies.
- Designed database schema, API contracts, service interactions, and failure recovery mechanisms including compensation, event replay, and eventual consistency strategies.
- Containerized services using **Docker** and managed database versioning through **Flyway** migrations.

PairTasker | Flutter, Node.js, Socket.io [GitHub](#) Jan 2023 - Apr 2023

- Designed and developed PairTasker, a mobile application based on a startup concept that enables users to act as both task providers and task requesters based on their skill sets.
- Implemented UI screens, client-side interactions, and in-app navigation, and integrated RESTful APIs to support core platform workflows.
- Integrated push notifications using Firebase Cloud Messaging (FCM) to enable real-time user updates.
- Implemented real-time chat functionality using Socket.io to support direct communication between users.