

Aryan Gaikwad

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PROFESSIONAL SUMMARY

Backend Engineer specializing in designing, developing, and deploying **microservices** end-to-end, covering **API design**, implementation, performance optimization, and production readiness. Experienced in building and optimizing backend services for core banking workflows using **Java 21**, **Spring Boot**, **SQL** with a strong focus on concurrency and system performance. Built automation frameworks that reduced development time by 90%. Also experienced in **performance testing** using JMeter and VisualVM, working in **Agile** environments with CI/CD pipelines and **version control systems**.

WORK EXPERIENCE

TATA CONSULTANCY SERVICES (TCS) – ICICI Imobile

August 2024 - present

Backend Java developer

- Led **Java 18** → **Java 21 migration**, enabling Virtual Threads and Semaphore Bulkhead for controlled parallelism.
- Developed and executed unit and **integration test** cases using **JUnit** to ensure code quality and reliability.
- Designed and optimized **SQL queries** and database interactions for efficient data retrieval and processing.
- Optimized third-party API, DB, and blocking calls, achieving ~45% reduction in platform thread usage, ~35% memory savings, and ~1.5x throughput.
- Worked in **Agile/SCRUM** environment, collaborating with cross-functional teams and participating in sprint planning and code reviews.
- Built a secure logging framework with dynamic regex and JSON key-based masking to enforce PII protection.
- Built an automated code generation algorithm with ~90% mapping accuracy, reducing microservice setup time from ~3 hours to 20 minutes.
- Upgraded the bulk code generation platform to support parallel generation of multiple microservices, improving delivery speed by over 60%.
- Executed performance and load testing using **JMeter** and service profiling using **VisualVM**.

TOUCHMEDIA ADS

Frontend Developer Intern

- Developed a dynamic admin panel with React.js for remote content management.
- Implemented secure user authentication using Context API and local storage.
- Utilized Axios for efficient CRUD operations with backend servers.
- Enhanced user experience with Toast for messages and Yup resolver for validation.
- Worked on Testimonial, Employee, Gallery, Before-After, enquiries, etc. pages.

PROJECTS

ENTERPRISE AUTH SYSTEM

- Built a **JWT-based authentication** system using Spring Security with access tokens and **DB-backed refresh tokens**.
- Implemented secure login, logout, token refresh, and token revocation without storing access tokens.
- Wrote **unit tests** using **JUnit** and validated API flows through Postman to ensure robustness and correctness.
- Designed role-based access control (RBAC) using database-backed roles and JWT claims.
- Supported multi-device login by issuing multiple refresh tokens per user.
- Handled JWT validation and authorization via custom security filters.
- Implemented global exception handling to correctly return 401/403 instead of generic 500 errors.
- Documented secure APIs using **Swagger**/OpenAPI and validated flows via Postman.
- Followed production security practices: short-lived access tokens, **BCrypt password hashing**, and token expiry checks.

ADDITIONAL

- **Technical Skills:** Java, SQL, Spring Boot, Microservices, REST APIs, Spring Security, JWT Authentication, Distributed Systems, Concurrency & Multithreading, Performance Optimization, JUnit, Jenkins (CI/CD), Git, Linux, Agile/Scrum, JMeter, VisualVM, Postman
- **Certifications & Training:** Nptel Programming in Java, Aggregate Marks: 86.0 / 100.0
- **Achievements:** offline marketing for Foundree School and Unity Bank, Innovation of the Quarter, two “on the spot” award.

EDUCATION

- Bachelor of Engineering: Aggregate CGPA : **9.03 / 10.00** June 2024
- 12th | MSBSHSE | Percentage: **84.77 / 100.00** 2020
- 10th | MSBSHSE | Percentage: **94.60 / 100.00** 2018