PRANAY TATE

To leverage expertise in Back-end Development, Java, Microservices and API Development to excel in Back-end Developer, Software Engineer, Full Stack Developer or Front-end Developer roles within product-based and fintech organizations.

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PROFILE SUMMARY

- Software Engineer with 2 years of experience in Backend Development, specializing in Java, Spring Boot, Microservices and API Development. Delivered 3x application performance improvement, reduced database response time to 250 ms, and maintained 95% JUnit test coverage. Recognized for strong problem-solving, analytical thinking, collaboration and ownership.
- Experienced in designing, developing and integrating scalable REST APIs, microservices, webhook solutions and enterprise applications within high-volume production environments supporting up to 100K users per hour.
- Proficient in back-end technologies including Java, Spring Boot, Spring Batch, MySQL, PostgreSQL, MongoDB, Redis, Docker, Maven, Git, GitHub and Postman with expertise in performance tuning, database optimization and system integration.
- Hands-on experience in AI-powered application development using LangChain, OpenAI API & FAISS with a proven proficiency to build intelligent, scalable solutions.

CORE COMPETENCIES

- Backend Development
- Microservices Architecture
- Performance Tuning & Scalability
- Java Application Development
- Spring Boot Development
- Production Support & Issue Resolution
- API Design & Integration
- Database Management & Optimization
- Software Development Lifecycle

TECHNICAL SKILLS

- **Languages:** Java, C++, Python, JavaScript, SQL
- **Backend:** Spring Boot, Spring Batch, REST APIs, Microservices
- **Databases:** MySQL, PostgreSQL, MongoDB, Redis
- **AI/ML:** LangChain, OpenAI API, FAISS
- **Testing:** Junit
- **Tools:** Git, GitHub, Maven, Docker, Postman

EDUCATION

- **Bachelor of Computer Engineering |** Pillai HOC College of Engineering and Technology | Aug 2020 – May 2024 | CGPA: 8.17/10

WORK EXPERIENCE

Tata Consultancy Services (TCS) | Backend Developer | Nov 2024 – Nov 2026 | Mumbai

Responsibilities

- Developed and maintained scalable back-end applications using Java, Spring Boot, Microservices, and REST APIs.
- Designed API services integrating YONO 2.0 with Core Banking Systems (CBS), orchestrating 4–17 external service calls per request.
- Built webhook APIs and enabled seamless integrations with external platforms, including HyperVerge.
- Implemented Email, SMS, and WhatsApp notification services for real-time customer communication and CBS data updates.
- Supported production environments through performance monitoring, issue resolution, and system reliability enhancements.
- Ensured code quality and application stability through comprehensive unit testing and coverage management.

Key Achievements

- Improved production application performance by 3x through asynchronous orchestration of downstream service calls.
- Reduced average database response time to 250 ms by implementing indexing and caching optimization strategies.
- Enhanced system stability for peak traffic volumes of 100K users per hour by resolving DB-locking issues through thread-pool execution and timeout-based task cancellation.
- Prevented duplicate Fixed Deposit creation in a 3-pod production environment by identifying concurrent scheduler execution as the root cause and redesigning retry processing using Spring Batch.
- Improved API reliability by addressing requests exceeding 30+ seconds beyond the 10-second gateway timeout, minimizing production disruptions.
- Maintained 95% JUnit test coverage across APIs, strengthening application quality, reliability and maintainability.

PROJECT

Chatting Application

- Developed a real-time chat application supporting group conversations of up to 100 users, enabling seamless communication and collaboration.
- Implemented WebSocket-based architecture to facilitate low-latency, bi-directional real-time messaging.
- Enhanced user experience by maintaining accurate online presence status through caching and polling mechanisms, ensuring connectivity tracking even under unstable network conditions.

ACADEMIC PROJECT

Dyanodaya – AI-Based Educational Platform

- Developed a Retrieval-Augmented Generation (RAG) based educational platform using LangChain, OpenAI API, and FAISS, enabling context-aware response generation by retrieving relevant information from 200+ PDF documents.
- Integrated AI-powered image generation and dynamic quiz generation features, delivering personalized learning experiences based on user queries and contextual data.
- Leveraged FAISS vector database for efficient semantic search and context retrieval, enhancing response relevance, accuracy, and system performance.

PERSONAL DETAILS

Date of Birth: 1 February 2002
Languages Known: English, Hindi, Marathi