

Akshay Tembhekar

akshaystembhekar@gmail.com | +91-8600768909 | Pune, India |
<https://www.linkedin.com/in/akshay-tembhekar-akshaytembhekar> |
<https://github.com/AkshayTembhekar21> |
<https://akshaytembhekar21.github.io/akshay-tembhekar-portfolio>

1 Summary

Backend Engineer with 7+ years in fintech and enterprise domains, skilled in scalable services, microservices, and high-performance systems using Java, Spring Boot, and event-driven architectures. Passionate about AI, with projects like RAGAI and HR Recruiter leveraging modern technologies.

2 Experience

Software Developer (Fintech Domain)

Trading Technologies, Pune
11/2023 - Present

- Designed and developed critical trading workflows, including Market On Close (MOC) and Switch RFM, enabling efficient handling of order execution and pricing logic.
- Implemented a hybrid architecture that integrates legacy monolithic systems with modern web applications using event-driven communication via Publisher-Subscriber pattern.
- Enabled real-time market data updates by leveraging WebSockets for seamless server-market-interface communication.
- Transitioned essential services to a microservices-based architecture to significantly improve system scalability, maintainability, and responsiveness.
- Optimized the Pricing Sheet module for a key client, achieving 80% performance improvement through database tuning and code refactoring.
- Followed Test-Driven Development (TDD) practices to ensure delivery of clean, testable, and production-ready code aligned with business requirements.
- Collaborated with cross-functional teams to streamline workflows, eliminate bottlenecks, and deliver high-impact solutions in a fast-paced trading environment.
- Managed a team of 3 developers to deliver product features (Trading workflows) such as MOC and Switch RFM.
- Utilized development and programming expertise to create scalable and robust solutions for merchant integrations, ensuring adherence to payment best practices that improved transaction success rates by 30%.
- Developed and maintained backend services as a Java engineer, focusing on the building blocks of Application Services to enhance system reliability.
- Tools & Technologies: Java, Spring Boot, Hibernate, Microservices/Distributed Systems, WebSockets, TDD, Event-Driven Architecture, JProfiler, JavaFX.

Senior Software Engineer

Bee Logical Solutions, Pune

01/2022 - 10/2023

- Worked as a web developer, delivering end-to-end solutions using Handlebars.js and Backbone.js.
- Developed backend modules for features such as On-Demand Video Training, Membership, and Event management.
- Integrated Vimeo API into the Learning Management System (LMS) module to enhance functionality.
- Followed the Waterfall development model for project execution.
- Tools: Handlebars.js, Backbone.js, LMS module, Waterfall development.

Software Developer (Back-End Developer Pharmaceutical Domain)

Excellerate Technology, Pune

04/2020 - 01/2022

- Worked as a back-end developer, delivering robust solutions for client user stories in the pharmaceutical domain.
- Developed key application phases such as Data Entry, Validation, and Filling using Java Swing and Angular.
- Provided technical capital expertise to business stakeholders, ensuring alignment with project goals and delivering impactful solutions.
- Conducted unit testing using JUnit, ensuring comprehensive test coverage and reliable code.
- Adhered to Agile methodologies, collaborating with cross-functional teams to meet evolving project requirements.
- Tools & Technologies: Java, Swing, Angular, JUnit, SQL, Git, TDD, Agile, SpringBoot, Hibernate, REST

Associate Software Developer (Fintech Domain)

NASDAQ, Mumbai

12/2017 - 03/2020

- Implemented end-to-end solutions for trade life-cycle phases such as trade capture and pricing for multiple derivative products.
- Followed industry-standard practices to implement trade capture and pricing features, contributing to backend scalability and maintainability.
- Organized and proactively participated in daily meetings with stakeholders to resolve conflicts and brainstorm new requirements.
- Followed comprehensive documentation, ensuring documentation was completed alongside development.
- Tools & Technologies: Java, Spring Boot, Hibernate, SQL, Git, Eclipse, Confluence, Log4j, Agile Methodology.

3 Education

Computer Science Masters Degree (MSc)

University of Pune, Pune
06/2016 - 06/2018

- Graduated with a CGPA of 9.2 in Masters degree, ranking top of the class in multiple semesters, and recognized as batch topper for academic excellence during the program.

Computer Science Bachelors Degree (BSc)

University of Pune, Pune
06/2013 - 06/2016

- Graduated with First Class and secured 1st position in a project competition conducted across multiple colleges under the Science Association and 2nd position held by Modern College of Science for the project: "Flucky," a gambling gaming platform.

4 Skills

- **Language:** Java (Expert), Python (Basic), SQL (Advanced), JavaScript (Basic).
- **Software:** Calypso (Intermediate).
- **Architectures:** Event-driven Architecture (Advanced), Microservices (Intermediate).
- **Framework:** JPA/Hibernate (Expert), JUnit (Advanced), REST (Advanced), Spring Boot (Expert), TDD (Intermediate).
- **Container and Cloud:** Kubernetes (Basic), AWS (Basic), Docker.
- **DevOps and Tools:** CI/CD (Basic), Git (Advanced), IntelliJ (Intermediate), Maven (Intermediate), JIRA (Advanced), JProfiler (Advanced).

5 Languages

- English (Native), Hindi (Native), Marathi (Native).

6 Projects

CanvasSync: Seamless LMS Sync with OAuth

- Syncs local Java platform with Canvas LMS using secure OAuth 2.0.
- Tools: Java 11, Spring Boot, Maven, MySQL, OAuth 2.0.
- <https://github.com/AkshayTembhekar21/CanvasInstructure>

MarketPulse: Real-Time Crypto Tracker

- Streams live crypto data with Spring Boot and Kafka for real-time insights.
- Tools: Spring Boot, Java, Kafka, JPA, WebSockets.
- <https://github.com/AkshayTembhekar21/MarketPulse>

RAGAI: Smart Confluence QA Bot

- AI-powered QA tool for internal docs using Confluence and GPT models.
- Tools: Python, OpenAI API, Pinecone.
- <https://github.com/AkshayTembhekar21/RAGAI>

HR Recruiter: AI Resume Sifter

- AI-driven resume screening with NLP for efficient hiring.
- Tools: Python, PyPDF2, spaCy, OpenAI API.
- <https://github.com/AkshayTembhekar21/hr-recruiter>