Akshay Tembhekar

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1 Summary

Experienced Backend Engineer with 7 years in fintech and enterprise domains. Skilled in developing scalable backend services, transitioning to microservices, and maintaining high-performance systems. Proficient in Java, Spring Boot, and event-driven architectures with a strong focus on TDD and system reliability. Passionate about AI, demonstrated through projects like RAGAI and HR Recruiter, leveraging modern AI technologies to solve real-world problems.

2 Experience

Software Developer (Fintech Domain)   03/2020–Present
Trading Technologies, Pune

- 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 Guava's 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, MOC, Switch RFM, Event-Driven Architecture, Java NIO.

Senior Software Engineer   01/2022–10/2023
Bee Logical Solutions, Pune

- 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)   04/2020–01/2022
Excellerate Technology, Pune

- 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, JavaFX, JProfiler, TDD, Agile, Spring Boot, 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, Maven, Git, IntelliJ, JIRA, Confluence, Log4j, Agile Methodology.

3   Education

Computer Science – Master's Degree (MSc)
University of Pune, Pune

06/2016–06/2018

- Graduated with a CGPA of 9.2 in Master's degree, ranking top of the class in multiple semesters.
- Recognized as batch topper for academic excellence during the program.

Computer Science – Bachelor's Degree (BSc)
University of Pune, Pune

06/2013–06/2016

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

4   Skills

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

5   Languages

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

6   Projects

CanvasSync: OAuth-Integrated LMS Data Synchronization Tool

- Developed a secure integration system to connect a local Java-based platform with Instructor's Canvas LMS using OAuth 2.0 authentication.
- Implemented the OAuth 2.0 flow to enable authorized access to Canvas API endpoints for user and course data.
- Fetched and synchronized course and user information from Canvas to the local system via Canvas public REST APIs.
- Designed and built backend services using Spring Boot and Java 11, with a lightweight front-end interface using HTML/CSS.

- Stored synchronized data in a MySQL database, ensuring consistency and integrity between systems.
- Utilized Maven for project management and dependency handling.
- Ensured modular, maintainable code with focus on clean architecture and API-driven development.
- **Tools:** Java 11, Spring Boot, Maven, MySQL, OAuth 2.0, Canvas LMS API, HTML/CSS.

MarketPulse: Real-Time Crypto Data Pipeline with Spring Boot & Kafka

- Developed a real-time cryptocurrency market data pipeline using Spring Boot and Apache Kafka.
- Integrated with external WebSocket APIs to ingest live market trade data.
- Implemented data processing and persistence using JPA (Hibernate) to store trade information in a relational database.
- Published processed trade events to Kafka topics, enabling scalable data distribution to multiple downstream services.
- Secured system reliability and correctness with robust unit testing using JUnit.
- Leveraged CI/CD pipelines to automate build, test, and deployment workflows, improving development velocity and deployment consistency.
- Designed for scalability, low latency, and high throughput in processing crypto trade data streams.
- **Tools:** Spring Boot, Java, Kafka, JPA (Hibernate), WebSockets, JUnit, CI/CD.

RAGAI - Confluence-Powered Internal QA Assistant

- Built a production-ready Retrieval-Augmented Generation (RAG) system for querying internal knowledge bases using natural language.
- Extended an existing RAG pipeline to integrate with Atlassian Confluence, enabling semantic search and Q&A over internal documentation.
- Integrated OpenAI's GPT models to generate context-aware answers from the top-ranked content.
- Used Pinecone to store and retrieve vectorized document chunks based on similarity to user queries.
- Designed for use by product managers, developers, and QA engineers to reduce time spent manually searching documentation.
- Reduced internal knowledge lookup time and improved onboarding efficiency across teams.
- **Tools:** Python, OpenAI API, Pinecone, Atlassian Confluence API, LangChain.

HR Recruiter: AI-Powered Resume Screening Tool

- Developed an AI-powered tool to streamline resume screening by extracting and analyzing candidate data from PDF resumes using Python and NLP techniques.
- Implemented PDF parsing with PyPDF2 and spaCy for entity recognition to extract key information like skills, experience, and education.
- Integrated OpenAI's GPT models to rank resumes based on job description relevance, improving recruitment efficiency.
- Built a Streamlit-based interface for HR professionals to upload resumes and view ranked candidate profiles.
- Ensured data privacy by processing resumes locally without external storage.
- Utilized pandas for data manipulation and visualization of candidate metrics.
- **Tools:** Python, PyPDF2, spaCy, OpenAI API, Streamlit, pandas, NLP.