Akshay Tembhekar

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# 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 sys- tem reliability. Passionate about AI, demonstrated through projects like RAGAI and HR Recruiter, leveraging modern AI technologies to solve real-world problems.

# Experience

## Software Developer (Fintech Domain)

*Trading Technologies*, *Pune*

03/2020–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 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 de- liver 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 mer- chant 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, Web- Sockets, TDD, MOC, Switch RFM, Event-Driven Architecture, Java NIO.

## 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 function- ality.
  + 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 pharma- ceutical 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*, M*u*mb*ai*

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 devel- opment.
  + **Tools & Technologies:** Java, Spring Boot, Hibernate, SQL, Maven, Git, IntelliJ, JIRA, Conflu- ence, Log4j, Agile Methodology.

# 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

* + Graduated with First Class in Bachelor’s degree.

06/2013–06/2016

* + 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.

# 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 (In- termediate).
  + **Framework:** JPA/Hibernate (Expert), JUnit (Advanced), REST (Advanced), Spring Boot (Ex- pert), TDD (Intermediate), Angular (Basic), NetSuite (Basic).
  + **Container and Cloud:** Kubernetes (Basic), AWS (Basic).
  + **DevOps and Tools:** CI/CD (Basic), Git (Advanced), IntelliJ (Intermediate).

# Languages

* + English (Native), Hindi (Native), Marathi (Native).

# 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 sys- tems.
  + 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 devel- opment 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 candi- date data from PDF resumes using Python and NLP techniques.
  + Implemented PDF parsing with PyPDF2 and spaCy for entity recognition to extract key informa- tion 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.