

Akhilesh Posapati

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Introduction

Highly passionate Software Development Engineer with over 2 years of experience in designing and implementing scalable software solutions.

Professional Experience

Software Development Engineer, Jio Platforms Limited – Hyderabad, India July 2022 – Present

- Architected and implemented a comprehensive **identity management** solution, resolving complex user identity challenges across multiple corporate partners leveraging **Java, Spring Boot, MongoDB**.
- Implemented a robust **periodical medical examination service** handling critical modules such as eligibility assessment, letter generation, online appointment booking and cancellations.
- Developed an **AI-Powered Diabetes Risk Assessment Tool** for real-time risk prediction, utilizing **Google Cloud Dataflow** for data ingestion, **Google BigQuery** for analysis, and a secure **RESTful API** built with **Flask**, achieving over 85% prediction accuracy.
- Streamlined the **corporate user onboarding** process, improving the scalability of the system to support onboarding of large enterprise clients using **Kafka**. Reduced onboarding time by approximately 50%, enabling faster go-live for corporate clients.
- Designed and implemented a robust data pipeline for the **ABDM extraction service**, responsible for handling **FHIR** bundles with high throughput using **Java, Spring Boot**.
- Led the development of the **RFH login module** for the RFH wellness application, focusing on secure, seamless user authentication.
- Developed high-throughput and secure **REST APIs** using **Python FastAPI** and **Java Spring Boot**, powering key microservices such as event management, PME integrations, and government API integrations (**NDHM**). Optimized for scalability and performance, handling millions of requests daily.

Intern - Software Development Engineer, Blue Yonder (JDA Software) Pvt. Ltd, Bangalore, India Jul 2021 – Dec 2021

- Optimized database interactions by implementing **JPA/Hibernate** and caching frequently accessed order data using **Redis**, reducing database load and improving query execution time by **40%**.
- Implemented responsive static pages and managed API calls using **React** and **TypeScript**, ensuring seamless data integration and enhanced user experience.

Achievements

- Secured an 8.5 CGPA in Minor in Computer Science with electives in computer programming, data structures and algorithms, OOP, OS, discrete structures in computer science, probability, and statistics.

Education

Birla Institute of Technology and Science, Pilani, Aug 2018 – May 2022
B.Pharm (Hons.) in Pharmacy with a Minor in **Computer Science**, GPA: 7.42/10

Technologies

Programming Languages: Java, Python, C, C++, TypeScript

Frameworks/Tools: Spring Boot, FastAPI, Flask, Kafka, Redis, MS SQL, PostgreSQL, MongoDB, React, Hibernate

Cloud Services: Azure (APIM, Functions, Service Bus, Storage Accounts), GCP

Other Technologies: NoSQL, SQL, Kafka, Elastic CI/CD pipelines, GitHub Actions, YAML, XML

Software Practices: Concurrency, System Design, LLD, HLD, Agile, RESTful APIs, MVC, Microservices, Design Patterns, Unit Testing.