

Akash Kumar

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PROFESSIONAL EXPERIENCE

Software Development Engineer

Oct. 2021 – Present

Tata Consultancy Services

Bengaluru

- Backend engineer (Spring Boot, Microservice and Java), contributing to all phases of the SDLC including design, development, documentation, and testing.
- Optimized existing APIs, resulting in a tangible 8-12% reduction in response times, amplifying system efficiency.
- Leveraged Docker and Kubernetes for efficient containerization and orchestration in backend development, enhancing deployment and scalability.
- Designed and implemented a priority-based activity sorting service.

EDUCATION

NIT Jamshedpur

Jamshedpur, Jharkhand

Master of Technology

Aug. 2019 – May 2021

- Specialized in algorithms, data structures, object-oriented programming, and core computer science concepts.

Kalinga Institute of Industrial Technology

Bhubaneswar, Odisha

Bachelor of Technology, Electrical Engineering

Aug. 2014 – May 2018

- Developed strong written and verbal English communication skills, as well as analytical and problem-solving skills.

PROJECTS

DriveHub: Geospatial location based ride backend

- Designed and developed a robust microservices architecture using Spring Boot, integrating various services including Location, Entity, Booking, Socket, Review, and Auth services. Eureka was leveraged for service discovery, ensuring seamless communication and scalability.
- Implemented Kafka for asynchronous communication between microservices, ensuring high availability and fault tolerance. Employed Retrofit for asynchronous API calls, enhancing system responsiveness and performance.
- Designed flexible data management solutions by integrating Redis for real-time driver location updates and MongoDB for alternative data storage, optimizing data retrieval and processing. Implemented Spring Data JPA and Flyway for efficient database management and migration.
- Implemented JWT token-based authentication using Spring Security in the Auth Service, ensuring secure access to resources and maintaining user privacy. Employed best practices in authentication and authorization to safeguard sensitive information and prevent unauthorized access.

ThoughtThread: RESTful API architected Q&A platform

- Developed a feature-rich Q&A platform leveraging Spring Boot and implemented functionalities like user registration, question posting, and answer submission.
- Designed endpoints for user actions, question management, and comment threading, optimizing data retrieval and manipulation processes.
- Utilized Flyway for seamless database migration, engineering efficient data models for users, questions, and answers through Spring Data JPA
- Utilized Spring Boot's `ResponseEntityExceptionHandler` for precise exception handling, enabling centralized error responses and enhancing application resilience.

SKILLS

- Java, Data Structures, Algorithms
- Spring Boot, Spring Data JPA, Spring Security
- REST, WebSocket, STOMP, MySQL, Kafka, Redis
- JWT, OAuth 2.0, ORM, Hibernate, MySQL, Junit, Mockito

CODING HANDLES

- GitHub: [aksh-kr](#)
- Leetcode: [resilientbloke](#)
- HackerRank: [resilientbloke](#)