Akash Kulthe

Software Engineer | IIT Bombay

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Work Experience

• Pine Labs | Software Engineer

(July'23 - July'24)

Payment Gateway Integration

- Integrated Gr4vy Orchestrator with payment checkout to streamline payments, contributing to 20% increase in revenue
- Optimized performance using **Redis** caching and reducing latency by 30% by avoiding repeated calls to the database
- Created error handling, logging mechanisms using **Spring AOP**, reducing debugging time by **50%** and minimizing downtime
- Implemented Gr4vy SDK for transaction creation and **DQS** (Delay Queue Service) **SDK** for real-time transaction status
- Developed various test cases including TDD (unit, integration) and BDD, significantly increasing code coverage to 95%

Credit+

- Implemented **Keycloak**, an open-source **IAM** solution to manage user **authentication** across portals, for **1000**+ users
- Configured realms for centralized identity management, enhancing access control and reducing onboarding time by 20%
- Integrated Privacy-IDEA with Keycloak to implement custom multi-factor authentication (MFA) flows for login and registration, reducing user authentication platform costs by approximately 30%
- Led the RSA integration by aligning technical implementation with business requirements and coordinating effectively with the RSA team, cutting development time by 15 days and boosting team efficiency by 25%
- Authored 50+ unit test cases, ensuring coverage of every line of code and elevating code coverage from 80% to 95%
- Developed **Dockerfile** configurations for 10+ services, boosting deployment efficiency and portability across environments

API Gateway

- Designed custom transformers for API request and response handling, enabling seamless integration and communication across API Gateway components
- Engineered routes for 100+ APIs in the API Gateway, enhancing system scalability, integration efficiency
- Contributed to **Agile** practices by participating in sprint planning, daily stand-ups, and retrospectives, improving sprint delivery success rate by **30**% over 6 months

Exposure: Java, SpringBoot, SQL, Docker, Postman, Redis, Unit Testing, REST APIs, Microservices

Projects

• Signal Times Optimisation — Course Project

(Feb'22- May'22)

Guide: Prof. Avinash Bhardwaj and M. Kulkarni, Mechanical Engineering, IIT Bombay

- Formulated road Network considering the constraints to reduce the average congestion rates on the roads
- Created a piece-wise linear delay function for each link, taking into consideration several cases of traffic flow
- Used AMPL to get the solution of traffic network and Any-Logic to validate reliability and robustness of the solution
- Stock Market Chart Analysis using Python—Self Project

(May'22- june'22)

- Generated a candlestick chart and plotted closing price versus time using time series data from y-Finance
- Depicted a SMA indicator to generate Buy/Sell Signal with annual average returns of 35% on nifty50 stocks
- Produced **volatility indicator** to measure how far security deviates away from its own mean price, higher and lower

Technical Skills

- Programming Languages: C++, Java, Python, HTML, CSS, JavaScript
- Technical Skills: Data Structure and Algorithms, Object-Oriented Programming, Machine Learning, SQL
- Frameworks and Technologies: Git, IntelliJ, SpringBoot, Postman, Docker, MS-SQL, MongoDB, Visual Studio, MS-Office

Leadership Experience

• DSMP Mentor — Dakshana Foundation, India

(Jul'21- May'22)

- Aimed to facilitate transition of 1st-year students to college environment who were part of the Dakshana Foundation
- Interacted with mentees to help them cope with their academic, personal and extra-curricular endeavours
- Coordinator Entrepreneurship Cell, IIT Bombay

(Sep'20- Mar'21)

- Piloted RnD Conclave in E-summit, commercializing 10+ research projects of IIT Bombay; a 100% YoY increase
- Managed the Event Networking Arena which had more than 80 start-ups and over 150 investors during E-Summit

Academic Achievements & Extracurricular Activities

B.Tech Indian Institute of Technology, Bombay

(Jul'19- May'23)

- Secured 99.20 percentile in JEE-Advanced and 99.80 percentile in JEE-Main (1M+ candidates) (2019)
- Secured first rank in Kho-Kho at Aavhan sports event 2022 at IIT Bombay

(2022)

• Visited over 10 government schools to educate more than 250+ students about IIT and the Dakshana Foundation

(2022)