Sai Deepak Reddy K

✉ saideepakreddy0308@gmail.com | 📱 +91 9490785333
🌐 www.saideepakreddy.com | linkedin.com/in/saideepakreddyk | github.com/saideepakreddy0308 | leetcode.com/d0308

Professional Summary

Skilled Backend Developer with expertise in Java, Spring Boot, Python, and strong skills in Data Structures and Algorithms, also proficient in frontend development. Experienced in building secure, scalable applications on cloud platforms like GCP and AWS. Committed to my work and supportive of others, I am eager to contribute and make a significant impact in a team environment and solve complex problems.

Education

Jawaharlal Nehru University (JNU), New Delhi *[NIRF India Rank: 2]*   Aug 2019 - May 2024
B.Tech. in ECE (C.S. Electives) & M.S. in Business Management [Integrated Dual Degree]   ***CGPA:8 /9***
Final Year Project (2023): Neuroimaging for stenosis detection - Worked at "***AIIMS, New Delhi*** "
Dissertation (2024): Probabilistic Hierarchical Model for ETF optimization - Presented at "***Greek India Conference, New Delhi***"
Narayana Junior College, Hyderabad, Telangana   2017 - 19
Senior Secondary Education   ***CGPA:9.76 /10***
Narayana EM School, Andhra Pradesh   2016 - 17
Secondary School Education   ***CGPA:10 /10***

Skills

Programming Languages: Java, Python, JavaScript, SQL, C/C++
Core Backend Skills: Spring Boot, Microservices, REST APIs, Flask, Django, FastAPI, Docker, Kubernetes, GCP, AWS, Git, Elasticsearch, Redis, Apache Kafka, PostgreSQL
Additional Frameworks & Knowledge: React.js, Agile Methodology, system design, machine learning and data analytics.

Work Experience

Software Engineer   **Aug 2024 - Present**
PragyaShal, in association with IIT Madras
- Developed scalable APIs for the **MydriEV** application, enabling EV rider functionalities such as real-time tracking, automated data collection from 300+ stations, and Google Maps integration—boosting operational efficiency by 50% and accelerating EV adoption.
- Designed and delivered custom solutions using Python frameworks and machine learning libraries.
- Worked on **independent projects** focusing on Java Spring Boot microservices, API development, and exploring system design principles for scalable and high-performance architectures.
  1. **LinkedIn Clone Application (Microservices Architecture):**   **Project Link**
     - Built a microservices-based backend using Spring Boot with centralized logging (ELK Stack) and distributed tracing (Zipkin).
     - Designed API Gateway and Eureka Server for load balancing and efficient routing, integrating Feign Clients
     - Enabled JWT authentication, bidirectional connections with Neo4j, and Kafka for notifications.
     - Deployed services with Docker and Kubernetes on Google Kubernetes Engine (GKE).
     Technologies Used: Spring Boot, Spring Cloud Gateway, Neo4j, PostgreSQL, Kafka, Docker, Kubernetes, GCP, ELK Stack, Zipkin, Resilience4j, OAuth2.
  2. **Uber Clone Application (Monolithic Architecture):**   **Project Link**
     - Implemented core ride-hailing features including driver assignment, pricing strategies, and real-time location updates.
     - Integrated PostGIS for geolocation, secure payments, and OTP-based ride initiation.
     - Deployed on AWS EC2 with comprehensive test cases for reliability.
     Technologies Used: Java, Spring Boot, Hibernate, JWT, PostgreSQL, AWS, Swagger UI, Mockito.

Software Development Trainee   **Jan 2024 - July 2024**
Antino Labs, Gurugram
- Developed **Guaranteed Rental E-commerce** Admin Application using Python, Flask, and Elasticsearch, integrating PayU for secure payments and improving search response times by 60% for over 100,000 customers.
- Achieved 89% prediction accuracy in the **PowerFrequency project** for a major client, using advanced time series models to create real-time dashboards that enhanced decision-making and improved system reliability by 30%.
- Delivered clean, optimized code for multiple projects using Java and Python, consistently surpassing delivery timelines by 20%.

Personal Projects

Galactic Note:
- Built a personal cloud-based notebook system to ensure notes are securely backed up and accessible across devices.
- Achieved 100+ active users within my college community.
Technologies Used: React.js, Node.js, Express.js, MongoDB, MUI, Mongoose, Bootstrap.

Secure Blog Management System:
- Created a secure blogging platform with token-based authentication and third-party API integrations.
Technologies Used: Python, Django, Django REST Framework, Redis, Celery.

Additional Achievements

- Languages: English, Hindi, Telugu
- Solved 300+ coding problems on LeetCode and GeeksforGeeks combined.
- Spring Boot Certification (Foundational & Expert) - Coding Shuttle
- Selected for Amazon ML Summer School 2023
- National Cadet Corps (NCC) Cadet | Executive Member, Robotics Club "De Robotica", JNU, New Delhi