ROHAN REDDY MELACHERVU

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EXPERIENCE

SDF-1

Webknot Technologies Pvt Ltd.

Oct 2022 - Present

- P Bengaluru, India
- Architected and implemented serverless, cloud-native solutions for HDFC Bank, optimizing development processes and significantly reducing costs. Suggested and implemented cloud-native solutions to the company, resulting in a 30% cost reduction. Developed and deployed multiple microservices using Java Spring Boot, ensuring secure communication through gRPC connections and implementing encryption measures for maximum security.
- Utilized AeroSpike as a cache solution and conducted thorough real-world performance testing with 100K users, achieving remarkable results with response times as low as 0.4 seconds.
- Engineered a backend application using NestJS, AWS SQS,
 Postgres for a healthcare application, ensuring top-tier performance, scalability, and security through meticulous adherence to industry-leading practices. Reduced project costs significantly by choosing AWS SQS for asynchronous communication between services instead of Kafka.
- Streamed real-time video footage from Raspberry Pi robots across the globe using AWS Kinesis, demonstrating expertise in implementing scalable and efficient solutions for global video streaming applications.

TECHNICAL SKILLS

Backend:

- Spring Boot, Django, NestJS
- · AWS, GCP
- Kafka, RabbitMQ, gRPC, WebSockets

Frontend:

- React, NextJS
- Redux, Tailwind CSS, MUI

Programming Langauges:

- Java, Python, TypeScript, Golang
- SQL

Tools:

- IntelliJ, VSCode
- AWS Console, GCP Console
- Jenkins, Github Actions, Kubernetes, Docker

HACKATHON PROJECTS

TimeWise: Automated Timesheet Wizard

- Developed a GitHub App to transmit GitHub activity to a Webhook server and orchestrated a NestJS server using OpenAl API for autonomous summarization of developer activities, populating a PostgreSQL Database with valuable insights.
- Implemented a **CRON job** for scheduled reporting, generating comprehensive daily reports in Excel format, and received the prestigious **Tech Expertise accolade** for outstanding innovation and impact during a hackathon.

EDUCATION

B.Tech (Computer Science Engineering)

Vellore Institute of Technology, Chennai

- ♥ Chennai, Tamil Nadu
- CGPA: 8.35

Relevant Course work

 Data Structures and Algorithms, Networks, Parallel and Distributed Computing, Operating Systems, Web Mining, Database Management Systems, Natural Language Processing, Internet and Web Programming, Big Data Processing.

ACADEMIC PROJECTS

EvaluMastery: Subjective Answer Assessment Pro

- Developed a Flask-based auto-evaluation app utilizing NLP techniques, including cosine similarity, Jaccard similarity, and keyword extraction, to determine the best metric for matching uploaded answers with correct ones.
- Leveraged NLP methodologies to create a precise auto-evaluation system within a Flask app, employing cosine and Jaccard similarity, as well as keyword extraction, to optimize answer matching.

SolarCast: Advanced Solar Power Forecasting

- Conducted solar power prediction on the Standard Benchmark Solar Power dataset, employing time series analysis and decomposition techniques in Python.
- Achieved an LSTM R2 score of 0.78, demonstrating strong predictive accuracy in solar power forecasting using advanced analytical methods.

ACHIEVEMENTS

- Received Tech Wizard award consecutively for 3 months in a row.
- Received Team Spot award for excellent performance at HDFC Bank.

HOBBIES

- Guitar (Electric and Acoustic)
- Lawn Tennis, Trekking, Table Tennis, Football, Basketball