ROHAN REDDY MELACHERVU

SDE-1

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EXPERIENCE

SDE-1
Webknot Technologies Pvt Ltd.

📅 Oct 2022 – Present   ● Bengaluru, India

- **HDFC Bank -** Architected & developed **serverless**, **cloud-native** solutions optimizing development processes and leading to a **30% cost reduction**. Developed and deployed multiple microservices using **Java Spring Boot** with secure gRPC communication. Tested with real world usage of 20,000 concurrent users.
- **Jatya** - A **healthcare application** revolutionizing appointment scheduling and preclinical processes. Opted for **AWS SQS** over Kafka, significantly cutting project costs while ensuring performance, security, and scalability with a **multi-tenant architecture** deployed on **AWS**.
- **ScaleLinode -** A project tailored for **Linode**, harnessing the power of **Golang** and **Kubernetes** to deliver unparalleled speed, reliability, and **scalability**. Leveraging **Kafka** for seamless communication between services, we engineered a platform capable of dynamically scaling instances while ensuring maximum **isolation** and **security** for clients. Our approach includes a proprietary **scaling algorithm**, optimizing resource allocation and enhancing efficiency. ScaleLinode stands out as a cost-effective solution, offering clients the benefits of major cloud providers like AWS, GCP while capitalizing on Linode's infrastructure for cost savings.

TECHNICAL SKILLS

Backend Frameworks & Cloud Technologies:
- Java Spring Boot, Django, NestJS, Golang
- AWS, GCP
- Kafka, RabbitMQ, gRPC, WebSockets, Docker, Kubernetes, Redis, Aerospike

Frontend:
- React, NextJS
- Redux, Tailwind CSS, MUI

Programming Languages:
- Java, Python, TypeScript, Golang
- SQL

HACKATHON PROJECTS

TimeWise: Automated Timesheet Wizard
- Developed a **GitHub App** to transmit GitHub activity to a **Webhook** server and orchestrated a NestJS server using **OpenAI API** for automated summarization of developer activi- ties, 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, Inter- net 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 Top Performer award for an outstanding performance over the last 6 months at Webknot Technologies.
- Received Team Spot award for excellent performance with the client, HDFC Bank.

HOBBIES

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