Kasyap Dharanikota

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Education

Mahindra University   2020 - 2024
Bachelor of Technology in Artificial Intelligence   *Hyderabad, India*

Experience

Comtek Solutions   July 2023 – July 2024
Software Engineer   *Hyderabad,India*
- Used Prometheus for the entire infrastructure for monitoring and timely report in case of downtime
- Architected and deployed a Dockerized back-end application on an AWS EC2 instance, seamlessly integrating with a remotely accessible MongoDB database hosted on AWS.
- Used Monitoring tools like App Signal for monitoring the performance and analytics of the application. Worked on building a crypto chain which was built on proof of ownership . Centralised the transactions and improved efficiency by implementing a provider dashboard using Golang
- Successfully collaborated on multiple NestJS-based back end projects, delivering tangible results, including the development of an administration system that streamlined client payments, resulting in a 20% increase in payment processing efficiency.

Jugyah   February 2023 – April 2023
Software Engineer Intern   *Mumbai , India*
- Collaborated closely with senior developers, actively contributed to key aspects of the website's development using ReactJS and Material UI, ExpressJS , NodeJS . Utilized Python to deploy automated tests across services for performance monitoring and reliability of the website.
- Spearheaded the creation of a Python-based price recommendation model with an impressive 95% accuracy, and executed enhancements to the software architecture. Contributed to the development of an AI-based system and applied NLP and LLM for personalised recommendations ,improved website page load speed by 40%, and reduced database query time by 20% by sharding the database .

Elite Techno Groups   August 2021- September 2021
Python Intern   *Mumbai , India*
- Developed software using Python and FastAPI, reduced time-to-production, improved API response rates by 30%, and implemented Git version control for robust development.

Projects

NPM CLI ENV Package |
- Developed and published an NPM package for managing environment variables on the command line, utilizing industry-standard encryption protocols like AES.

Bandwidth Monitoring| Link   April 2023 - July 2023
- Developed "Bandwidth Monitor," a web application for monitoring network bandwidth without external libraries.
- Built the backend with ExpressJS, ensuring robust server-side functionality.
- Implemented a user-friendly frontend using Material UI, resulting in a 15% increase in rendering speeds .

Image Dehazing Using Visual Transformers | Link   March 2023 - July 2023
- Developed DehazeFormer, an innovative image dehazing model based on Swin Transformer, featuring customized normalization, activation functions, and spatial information aggregation techniques tailored for improved haze removal.

Workflow Automation Agent | Link   March 2023 - July 2023
- Architected a complex contextually-aware automated workflow system utilizing advanced AI agents and generative AI APIs (Gemini API) to provide intelligent decision-making, actionable suggestions, and automated task execution for comprehensive workflow management and data analysis.

Technical Skills

Languages: Go,TypeScript,Javascript,C++,Python
Technologies: React.js,Express.js,TensorFlow,NestJS,Mongodb,Svelte,Node.js,Docker,Kubernetes
Others : AWS,Swagger API,firebase SDK , GIT ,Twilio,Linux,Postgresql,LLM, CockroachDB,MongoDB,OpenAI API