Anshul Dalua

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EDUCATION

University of Michigan — Ann Arbor, MI
Bachelor of Engineering in Computer Science — *Aug. 2020 – May 2024*
Relevent Courses: Data Structures, UI/UX, Databases, Web Development, Machine Learning, Mobile App Dev

EXPERIENCE

Oracle — May 2023 – Aug 2023
Software Engineer Intern — *New York City, NY*
- Developed a command-line interface tool using Go and Kubernetes for the Verrazano product, converting user's YAML files from Open Application Model to Kubernetes
- Integrated Prometheus and Grafana to an existing dashboard for customers to monitor logs and metrics within the Verrazzano metrics stack utilizing Go, Docker and Thanos.
- Utilized Docker for application deployment and leveraged Jenkins for tool's CI/CD pipeline.

Optum United Health Group — June 2022 – Aug 2022
Software Engineer Intern — *Basking Ridge, NJ*
- Migrated data and API's from an outdated on-prem OpenShift cluster to a more efficient AWS EKS cluster, using Java, Kubernetes, SpringBoot, Maven,Postman and Jenkins, reducing API infrastructure expenses by 84%
- Augmented existing Jenkins pipeline to accommodate for multiple clusters and API's being tested and enabling advanced parameterization, using Java, Spring Boot, Maven, and Docker

Adept Bots — Mar 2020 – Sept 2021
Software Engineer — *Remote*
- Improved response times and checkout processing speeds by manipulating unconventional website endpoints using Python, Node.js and Axios
- Developed new request mode that was made to emulate a human checking out, using Selenium and Pyppeteer
- Developed a Discord bot to monitor and identify unauthorized third-party software reselling activities across various public servers, using leveraging Discord.py

PROJECTS

Alethia | *Python, LangChain, ChromaDB, Flask, Replicate, HuggingFace, Optuna* — Apr 2024 – Present
- Implemented a Flask-based AI-driven recruiting tool leveraging Llama3 as the LLM, LangChain to read repo contents, and ChromaDB for vector embeddings to provide insights on applicants' personal projects via their resumes and GitHub, enhancing the recruiting process.
- Fine-tuned Llama3 with open source Github Repo's using HuggingFace and PyTorch Lightning, and optimized LLM performance with Optuna for hyperparameter tuning.

CollegeDAO | *Typescript, Supabase, Postgres, Next.js, Husky, ether.js, Solidity* — Sept 2022 – Present
- Designed and developed a full-stack web application CollegeDAO Hub that connects blockchain industry with 80+ universities within the CollegeDAO network using Typescript, Supabase and Postgress https://collegedao.io/
- Managed a remote team of 10 devs over the course of 3 months building out the backend infra of initial prototype
- Integrated a Distributed Validator Technology system allowing university clubs to stake their eth collectively to support on-campus research and distribute profits

Rocetta | *Typescript, NodeJS, AWS Lambda, Cloudflare, Planetscale, Pulumi, Docker* — June 2023 – Dec 2023
- Developed a full-stack web application using with Pulumi, node.js and Typescript to easily help users quickly deploy to multi-cloud, supporting Azure, AWS and GCP https://rocetta.com/
- Created serverless Rest API's with TypeScript for Lambda to dynamically manage user EC2 and RDS instances
- Integrated OpenAI API to recommend and provision the necessary AWS/GCP services for each user's project.

Spotify Playlist Generator | *Python, TensorFlow* — June 2022 – Aug 2022
- Developed a Python application using the Spotipy API to generate personalized Spotify playlists based on user-selected artists and desired mood, enhancing user experience and engagement.
- Trained a TensorFlow model with Keras achieving 70% accuracy by leveraging a dataset of 800 songs, predicting song moods to curate mood-specific playlists. Implemented data preprocessing and feature scaling using Pandas and Scikit-learn, and visualized results with Seaborn.