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Mujeer Ahmed

Software Engineer

Portfolio: mujeerahmed.github.io
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Result-oriented and goal-driven software developer with proficiency in Python's Django and Flask framework. My core interests lie in the fields of Data Science, DevOps and Backend Development

TECHNICAL EXPERIENCE

Intern

Nov 2021 — Jan 2022

ExactSpace

Bangalore, India

- Deployed a data center infrastructure including hardware setup, prerequisite software installation, and deployment of various components such as Pulse UI, Pulse Core, client data integration, and client-side data access, ensuring successful configuration and optimization of servers, load balancer, Docker Swarm Manager, MQTT broker, caching server, and Grafana.
- Automated API testing for a product using Robot Framework, scheduled report generation on Jenkins, enabling the company to promptly identify and fix API or service issues before customers are affected.
- Wrangled and migrated 40GB of historical sensor data from client's machinery to the company's local time series database KairosDB by extracting it from a distributed file system, ensuring the data is organized, easily accessible, and can be used for future analysis and insights.
- Automated the generation of a comprehensive report for over 50,000 sensors, improving efficiency and enabling timely detection of sensor issues.
- Deployed a multi-node/master-slave Jenkins setup with replication strategy for improved scalability and availability. Configured necessary software components, tested failover scenarios, and documented the setup for the operations team.
- Automated DCOM configuration using PowerShell scripting, resulting in significant time and cost savings for the company by eliminating the need to send developers for software installation and deployment.

Research Intern

May 2022 — Jun 2022

Indian Institute of Science (IISc)

Bangalore, India

- Performed Direct Numerical Simulation (DNS) for incompressible fluids in turbulent channel flow using Navier-Stokes equation aided by Incompact3d
- Solicited data from John Hopkins Turbulence Database to generate high-res simulations of eddy flows, vortices and other coherent structures in turbulent boundary layer using ParaView

SKILLS

Languages	Python, Java
Backend Frameworks	Django, Flask
REST API Frameworks	DRF, FastAPI, FlaskAPI
Databases	Postgres, MySQL, KairosDB
Other	AWS, Docker, Git, Linux, Robot Framework, Ansible

PROJECTS

AutoMind [\[Source Code\]](#) [\[Demo Link\]](#)

Tech Stack: Python, Streamlit, OpenAI API

- A Generative AI tool for pre-owned car inspections

DevSearch [\[Source Code\]](#)

Tech Stack: Python, Django/DRF, Postgres, HTML/CSS

- A hiring platform designed for HRs to find developers, send instant messages and interview with them all in one platform.
- Implemented authentication and CRUD operations

WebRTC Video-calling App [\[Source Code\]](#)

Tech Stack: Javascript, HTML/CSS, AgoraSDK

- A video-calling application that bypasses UAE government's ban on video conferencing services by implementing peer-to-peer communication and UDP protocols.

EDUCATION

Bachelor of Mechanical Engineering, Nitte Meenakshi Institute of Technology

2018 — 2022

ACHIEVEMENTS

Lead a team to win 1st place out of 1,500+ applicants in a hackathon conducted by **Massachusetts Institute of Technology** 2020
Lead a team to win 1st place out of 500+ applicants in a hackathon on **Generative AI** 2023