OMKAR KAKADF

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Skills

LANGUAGES

JavaScript

Python

TypeScript

Java

WEB

Nest.is

HTML

Spring

CSS

Angular

Diango

Celery

DATABASES

SOL

PostgreSQL

SPARQL

Firestore

AWS Neptune

CLOUD

Microsoft Azure

Amazon Web Services - AWS Google Cloud Platform - GCP

AI/ML

Tensorflow

PyTorch

Pandas

Numpy Scipy

Matplotlib

OpenCV

spaCy

scikit-learn

TOOLS

Git Bash

Docker

Nginx

Certifications

AWS Certified Solutions 2019 Architect - Associate

AWS Certified Developer 2020 -2023 Associate

AWS Certified SysOps 2020 -2023 Administrator - Associate

Experience

Senior Software Engineer Motorola Solutions

Vancouver, CA Feb. 2024 - Current

- Full-Stack SWE on CAPE, a low-latency P2P drone video & control platform. [Product Link]
- Lead infrastructure and security compliance for CAPE with 99.95% SLA.
- Developed an auto-update mechanism for Android apps, reducing update times by 3x.
- Built a log-processing microservice for flight telemetry data, improved UX & backend efficiency.
- xFN task Collaborated with the Video Services team to deploy services to secure Azure GovCloud environment in the Canada region.

Software Engineer Motorola Solutions

Somerville, MA Nov. 2021 - Feb. 2024

Developed features for CAPE like Viewer Management & Mission Planning, resulted in 5x customer

- Integrated drone live streams with internal services, enhancing ecosystem functionality.
- [Press Release] (Python, Django, Azure EventHub). • Migrated frontend to Angular 13, reducing vulnerabilities by 30% & improving load times by 54%.
- Built Docker containers for local development, cutting setup time by 25x. (Docker, Django, Angular, PostgreSQL, Redis, Nginix)

Software Engineer - AI/ML Bola Al

Feb. 2021 - Oct. 2021

- Voice Enabled Dental EHR System Designed scalable cloud infrastructure to support a 3x growth in users. (Azure, Docker, NGINX, App Gateway, Prometheus, Grafana, Nest.js, WebSockets, Sentry)
- Built CI/CD pipelines, reducing deployment time to under 10 minutes. (Github Actions)
- Developed a custom speech model improving response time and accuracy by 10% while reducing costs by 58%. (Deepgram ASR, Typescript, Python)

Machine Learning Engineer Siemens

Orlando, FL Jan. 2020 - May 2020

- Internal Predictive Analytics Platform Built Docker images for custom R-based time series forecasting models, improving scalability.
- Reduced model deployment costs by 64% using batch transforms. (AWS Sagemaker)

Software Developer Siemens

Orlando, FL May 2019 - Dec. 2019

- Search Application for Knowledge Graph Developed a RESTful API for a serverless search app using AWS, Graph Database and NLP techniques. (Python, Java, spaCy, Apache Jena, Flask, Springboot, AWS Lambda, API Gateway, Neptune, S3, Angular)
- Cloud Resource Management Implemented cloud resource management API, saving 87% in EC2 costs.

Education

Rochester Institute of Technology

Bachelor of Engineering Computer Engineering

Aug. 2017 - Dec. 2020

Master of Science Computer Science

GPA: 3.67

University of Pune

Aug. 2012 - May 2016

Projects

Performance and Deployment of Deep Neural Net on Edge Devices

2020

 Deployed InceptionNet and MobileNet on Raspberry Pi 4, optimizing for accuracy, CPU/memory usage, and latency using techniques like quantization, weight clustering and weight pruning. (Python, TF-Lite)

Multi-core, Cluster, GPU and Map-Reduce Projects - https://bit.ly/2IJBf8B

2018

Developed solutions for large-scale mathematical problems using multi-core, cluster, GPU, and Map-Reduce techniques. (Parallel Java 2, Java, C)