OMKAR KAKADF

omkar.kakade@gmail.com

O-kakade.github.io

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Skills

TOOLS

Git

Bash

Docker

Nginx

AI/MI

Tensorflow

PvTorch

Pandas

Numpy Scipy

Matplotlib

OpenCV

spaCy

scikit-learn

DATABASES

SQL

PostgreSQL

SPAROL

Firestore

AWS Neptune

CLOUD

Microsoft Azure

Amazon Web Services - AWS Google Cloud Platform - GCP

LANGUAGES

JavaScript

Python

TypeScript

Java

WEB

Nest.js

HTML Spring

CSS

Angular Diango

Celerv

Certifications

AWS Certified Solutions Architect - Associate

AWS Certified Developer 2020 -2023 Associate

AWS Certified SysOps 2020 2023 Administrator - Associate

Experience

Software Engineer Motorola Solutions

Somerville, MA Nov. 2021 - Feb. 2024

- Full-Stack SWE on CAPE, a low-latency P2P drone video & control platform. (Product Link)
- Developed features like Viewer Management and Mission Planning, driving a 5x growth in customer
- Integrated drone live streams with internal services, enhancing ecosystem functionality. (Press Release) (Python, Django, Azure EventHub).
- Migrated frontend from Angular 9 to 13, reducing vulnerabilities by 30% and improving load times by
- Built Docker containers for local development, cutting setup time by 25x. (Docker, Django, Angular, PostgreSQL, Redis, Nginix)

Software Engineer - AI/ML Bola Al

Boston, MA 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, Typescript, Nest.js, WebSockets, Angular, Electron, 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 SageMaker batch transforms. (AWS Sagemaker)

Software Developer Siemens

Orlando, FI

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

Senior Software Engineer

Motorola Solutions

Vancouver, CA Feb. 2024 - Current

- 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, which improved user experience and backend efficiency.
- xFN task Collaborated with the Video Services team to deploy services to secure Azure GovCloud environment in Canada region.

Education

Rochester Institute of Technology Master of Science Computer Science Aug. 2017 - Dec. 2020

University of Pune

Aug. 2012 - May 2016

Bachelor of Engineering Computer Engineering

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,

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)