OMKAR KAKADE

O-kakade.github.io

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O o-kakade

Skills

LANGUAGES

JavaScript

Pvthon

TypeScript

Java

WEB

Nest.js

HTML

Spring CSS

Angular

Django

Celery

DATABASES

SOL

PostgreSQL

SPARQL

Firestore

AWS Neptune

CLOUD

Microsoft Azure

Amazon Web Services - AWS Google Cloud Platform - GCP

AI/ML

Tensorflow

PvTorch

Pandas

Numpy

Scipy Matplotlib

OpenCV

spaCy

scikit-learn

TOOLS

Git

Bash Docker

Nginx

Certifications

AWS Certified Solutions 2019 -Architect - Associate 2022

AWS Certified 2020 - Developer - Associate 2023

AWS Certified SysOps 2020 - Administrator - Associate 2023

Experience

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, improving UX & backend efficiency.
- xFN task Collaborated with the Video Services team to deploy services to secure Azure GovCloud environment in Canada region.

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 & Mission Planning, resulted in 5x customer growth.
- 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 AI Boston, MA Feb. 2021 - Oct. 2021

- <u>Voice Enabled Dental EHR System</u> 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

- <u>Internal Predictive Analytics Platform</u> 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, 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

Education

University of Pune

Rochester Institute of Technology

Aug. 2017 - Dec. 2020

Master of Science Computer Science

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, 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*)