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

Diango

Celery

DATABASES

SQL

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 201 Architect - Associate 20

AWS Certified Developer 2020 - 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, 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.

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 hase
- 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 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, 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

- <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 costs.

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, 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*)