

Nabeel Thotti

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EXPERIENCE

Integration Developer Intern

June 2024 – August 2024

University of California, Los Angeles

Los Angeles, CA

- Implemented a serverless cloud-based middleware platform to facilitate seamless data integration between Oracle Financial Cloud and UCLA's boundary systems, increased data availability time by 99%.
- Designed, coded, and deployed serverless integration services using AWS DynamoDB, S3, SQS, API Gateway, and Lambda functions to interface with Oracle APIs, while working in Agile development processes.
- Engineered AWS Step Functions to orchestrate complex workflows while successfully integrating with third-party SaaS platforms like Paymentworks, Jaggaer, and Oracle Cloud.
- Identified approximately 120 inbound and 80 outbound interfaces integrating with Oracle Financial Cloud.

Software Developer Intern

June 2023 – August 2023

University of California, Los Angeles

Los Angeles, CA

- Worked on the migration of UCLA Student Financial Aid core systems from legacy mainframe infrastructure to Oracle SaaS product Vocado, reducing operational costs by 30%.
- Engineered AWS cloud solutions, configuring and provisioning EC2 instances for application hosting, and RDS for streamlined database management, resulting in a 15% decrease in resource allocation overhead.
- Implemented automated migration scripts using AWS SAM CodePipeline's from one environment to another, increasing the deployment efficiency by 80%.
- Performed extensive system testing and optimization, achieving a 99.5% uptime post-migration and ensuring compliance with security and privacy regulations.

Data Specialist

Sep. 2021 – Sep. 2022

Land of The Free L.P.

Beverly Hills, CA

- Optimized data management processes through strategic SQL queries and advanced spreadsheet techniques, achieving a 30% increase in data processing efficiency.
- Developed scalable data handling solutions, utilizing data warehousing methods and parallel processing frameworks to enhance capacity for large data sets.

PROJECTS

SmarterTraffic | Python, Flask, TensorFlow, Apache Kafka, Apache Hadoop, React

July 2024 – Present

- Developed an IoT-based system for optimizing traffic flow in urban areas using data collected from cameras.
- Utilized Apache Kafka for efficient data streaming and Apache Hadoop for data storage and processing.
- Implemented machine learning models using TensorFlow to predict traffic conditions and automate traffic signals, reducing traffic congestion by 25%.

Rekognize | Python, Keras, CNN, Flask, TensorFlow

May 2024 – July 2024

- Developed a dual-model recognition system using TensorFlow, Flask, and OpenCV that identifies digits and alphabets from live drawings with an accuracy of 98%.
- Designed a Convolutional Neural Network for object recognition, and enhanced model efficiency by 30% implementing k-fold cross-validation enhancing model efficiency by 30%.
- Optimized image preprocessing, achieving 40% reduced processing time by implementing dynamic techniques.

AI Health Monitor | Node.js, Vue.js, TensorFlow, Apache Spark, IoT Devices

February 2024 – May 2024

- Created a health monitoring system integrating wearable devices that track vital health metrics, achieving real-time data synchronization with 99.5% uptime.
- Developed ML algorithms using TensorFlow to analyze health data and predict potential health risks, improving prediction accuracy of potential health risks by 25% over previous models.
- Used Node.js backend for communication between IoT devices, database, and models to ensure seamless data flow.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R, Linux, MATLAB

Frameworks/Databases: React, PyTorch, Django, Pandas, TensorFlow, Boto3, NumPy FastAPI, Kafka, Keras,

Developer Tools: Postman, Git, Docker, AWS, Netlify, Figma, Kubernetes, Jira