Karthik Gurram

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Skills

Languages: Python, Java, SQL, JavaScript, TypeScript, HTML, CSS, Swift, Go, C, C#
Technologies: React, React Native, Node.js, Flask, Docker, Kubernetes, Terraform, Django, Express.js, Kibana, Git

Experience

Kinaxis
Site Reliability Engineer Intern   **Toronto, ON | Jan 2023 – Aug 2023**

· Improved process reinforcement by developing **Python** script to perform scheduled down-time synchronization operations across Salesforce & Datadog with **96 daily executions**, ensuring updated data compatibility
· Modernized existing SOAP API using **REST** functionality to retrieve over 100 **Pandas** dataframes utilizing advanced **SQL** queries, reducing script runtime by **20%** and raising workflow speed of over 1000 employees
· Deployed Airflow cron job to update Salesforce server data through **PostgreSQL** queries & vendor API
· Collaborated with Google's data engineers to evaluate potential migration from Grafana to **Looker Studio**, contributing insights during strategy meetings, resulting in a good understanding of use cases and benefits

Andie
Software Developer Intern   **Toronto, ON | Jan 2022 – Apr 2022**

· Built a comprehensive web application using **ReactJS** & **Django** for corporate catering & events management, enabling clients to schedule events & receive catering quotations from restaurants based on their specifications
· Developed a customer-facing dashboard with an **Agile** team of 8 in a high-ambiguity startup environment for real-time updates & integrated mobile notifications with Twilio & SendGrid, enhancing user engagement & UX

Projects

Muse ↗
· Constructed a full stack, responsive web app with **Flask** & **React**, incorporating an ML-based recommendation engine to quickly deliver real-time music suggestions based on songs or albums selected by users
· Implemented a music recommendation system using **K-Nearest Neighbors (KNN)** & **scikit-learn**, trained on key features like danceability, energy, valence, & tempo to accurately adhere to the user's music tastes
· Built an efficient pipeline that normalizes audio features using StandardScaler, processes large datasets leveraging **Spotify API**, provides substantial similarity data, & ensures robust handling of **HTTP** requests

Zen ↗
· Developed task management **iOS** app using **SwiftUI** with real-time task completion & tracking features
· Integrated dynamic charts with Swift Charts enabling tracking of productivity through data visualizations
· Improved robust data model using **SwiftData**, raising efficiency of storage & retrieval of data by up to **20%**

Droneline ↗
· Designed custom **convolutional neural network (CNN)** with a team of 4 using **TensorFlow** & **Keras**, optimizing model architecture for high-precision line detection, improving drone's ability to navigate complex environments
· Engineered image processing pipeline with **OpenCV**, integrating edge detection, noise reduction, & contour analysis to create scalable solution for processing large datasets efficiently during training & testing phases

Education

Ryerson University   **Toronto, ON | Aug 2024**
B. Eng, Computer Engineering (Software Engineering Stream)
Coursework: Data Structures & Algorithms, Distributed Systems, Databases, Operating Systems, Networks