# Karthik Gurram

kggurram@gmail.com　•　kgurram.tech　•　github.com/kggurram　•　linkedin.com/in/kggurram

## 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

### Fincita Consulting
Systems Engineer Intern　　　　　　　　　　　　　　　　　　**Toronto, ON | May 2024 – Dec 2024**
· Monitored and tuned **Elasticsearch** clusters, optimizing shard allocation and ensuring system scalability
· Supported **Kubernetes-based** application deployments, improving resource utilization & operational efficiency
· Integrated monitoring tools like **Prometheus**, **Grafana**, and **ELK** to enhance observability & issue resolutions

### 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

### Lock In
· Built a **React Native** app with workout logging, diet tracking, & progress history, using **Firebase** authentication & Firestore **real-time data storage** for seamless UX with persistent session management
· Developed local caching and offline persistence, **cutting API calls by 60%** & improving load times by 25%
· Integrated **Zustand** for lightweight state management, reducing re-renders by 30% & raising performance

## Education

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