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EDUCATION

UC San Diego

DEGREE: B.S **MAJOR:** Applied Math

RELEVANT COURSEWORK

- Data Structures & Object Oriented Design
- Math for Algorithms & Systems
- Combinatorics, Statistics, Data Analysis w/ R

SKILLS

- **Programming** – Python, Java, C++
- **Math** – R, Matlab, Pandas
- **Web** – JavaScript, HTML, CSS
- **Cloud** – AWS, GCP, Kubernetes, Docker
- **Frontend** – ReactJS, Redux
- **Backend** – Django, Flask, PostgreSQL

WORK EXPERIENCE

Hadoolytics

April 2021 - Present

Software Engineer Intern

- Worked with a team that helped businesses migrate their applications from legacy servers to **Kubernetes** clusters installed on **AWS EC2** instances.
- Architected the backend of a policy management tool for software deployed on **Kubernetes** clusters on **GCP**.
 - Installed a server instance of the **Grafeas metadata API** on the cluster which is used to store vulnerability scan reports and attestations.
 - Installed a **Kritis binary authorization webhook** on the cluster, which is configured to query the **Grafeas API** to ensure vulnerability and attestation requirements are satisfied.
 - Set up a **Kubernetes CronJob** for continuous vulnerability scanning of the images pushed to pods which flags bad pods for attention.

PROJECTS

Stat90 (143.110.225.43)

2020

Visualization tool for soccer statistics.

- Developed a **React** progressive web-app which uses **Chart.js** to provide an interactive visualization tool for soccer stats.
- Set up a weekly cron job which scrapes data using **Selenium**, stores it in a CSV and populates the **PostgreSQL** database.
- Set up a **Django REST API** to serve the data.

IronLog (143.110.146.187)

2020

Fitness tracker to create and modify routines.

- Progressive Web App implemented in **React** using **Redux** for state management and Knox for token authentication.
- Created a **Django** backend which utilizes many-to-many model relationships allowing users multiple start-points to their log and reducing database redundancy.

Reddit.Record

2019

Explore a term's sentiment and popularity on Reddit by subreddit.

- Built a **Flask** web-app which generates graphs using **PyPlot** and **Bokeh**.
- Implemented **PushShift API** to collect data from Reddit and used **NLTK** to analyze the sentiment of the vectorized data.

Position Predictor

2018

Predicts position based on skill values.

- Developed a **Flask** web-app which predicts the user's soccer position based on entered attributes.
- Trained a Classifier model, applied **Principle Component Analysis** reducing a 51 feature dataset to 11 while maintaining 92% accuracy.