Software Engineer

Katrina Nguyen

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SKILLS & EXPERTISE

- JavaScript
- React
- Chart.js
- D3
- Node
- Express
- Python
- SQL
- PostgreSQL
- HTML5/CSS3
- Machine Learning
- Statistical Analysis
- Relational Database Design
- Object-Oriented Design
- Functional Programming Knowledge
- API Design Knowledge

PROJECTS

SIMPLE (Service Insights from Machine Processing of Linguistic Evaluations)

Description: Used Sentiment Analysis as a natural language processing technique to determine whether 42,000+ reviews from Disneyland are positive, negative or neutral. **Technologies:** JavaScript, Python, PostgreSQL, HTML, CSS, Heroku

- Designed and implemented frontend interfaces to assemble the web application to display data visualizations based on results of the sentiment analysis. **Link:** https://keep-it-simbal**.**herokuapp.com

Project Shutdown

Description: This project analyzes the COVID-19 impact of registered business across San Francisco. **Technologies:** JavaScript, Plotly.js, Chart.js, D3.js, Python, PostgreSQL, HTML, CSS

- Created a mobile-responsive web application as well as an API using the Flask framework in Python to present findings via charts and maps. **Link:** https://github.com/katrinan029/project-shutdown

Pet Adoption

Description: Don't buy, adopt! Pet adoption is a small application to browse adoptable pets. **Technologies:** JavaScript, React.js

- Built application by using the latest features in React, including hooks, effects, context and portals so that users can easily navigate through the web page and find pets to adopt. **Link:** https://github.com/katrinan029/adopt-me

WORK EXPERIENCE

Management Analyst

City of Santa Clara | December 2018 – April 2021

Partnered with internal stakeholders and outside organizations in conducting studies to apply best practices to budgeting and financial policies in order to safeguard city assets and maximize community services. Led efforts to reduce the budget by $5.0 million following the impact of the COVID-19 pandemic.

EDUCATION

University of California, Berkeley
Data Analytics and Visualization Certification

University of Southern California
Masters of Public Administration

University of California, San Diego
Bachelor of Arts in Political Science/Public Law