

AUSTIN MAC

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EXPERIENCE

Tesla

Data Engineering Intern

August 2020 - December 2020

Fremont, CA

- Building ETL data pipeline for predictive analysis of job efficiency (Pandas, SciKit-Learn, SQLAlchemy, SQL Server, MySQL, Ansible)
- Built dashboards to flag unusually reported field jobs (SQL Server, Tableau)

Roblox

Software Engineering Intern

June 2020 - August 2020

San Mateo, CA

- Built monitoring dashboard to track resource usage on container orchestration servers, calculate waste, aid capacity planning (Docker, Go, Grafana, SQL Server)
- Built RESTful API on CI/CD with unit/integration testing to return job level resource usage from Hashicorp Nomad
- Open source project repo: https://github.com/Roblox/rblx_nurd

Interview Query

Data Science Intern

October 2019 - May 2020

San Francisco, CA

- Set up web scraping automation for collection of interview data (AWS, BeautifulSoup, Selenium)
- Created visualizations and distributions of web quiz results (Seaborn)
- Developed NLP data pipeline to classify interview question data from Glassdoor weekly (FastText)

MesoAmerican Research Center

Data Analyst Researcher

April 2019 - October 2019

Santa Barbara, CA

- Utilized random forests to clean data and remedy inconsistencies (SciKit-Learn)
- Built visualizations and created distributions (Seaborn)

PROJECTS/RESEARCH

NoTP

Web app based on Django stack for donating toilet paper to others in need. Backend development with Python, Django, MySQL. Frontend development with HTML, CSS, JavaScript.

the drop. (2nd Place @ SB Hacks 2020)

GPS location based Venmo scavenger hunt game for web, Android, and iOS developed at annual UCSB Hackathon. Implemented back-end database (Firestore), trigger functions (JavaScript), automated SMS system (Twilio API), scheduled releases (CRON). Find at <https://dropabit.ch>

Airbnb Machine Learning

Supervised machine learning to predict prices of Airbnb properties in New York. Random Forests, Bagged/Boosted Models, Radial/Polynomial Kernel SVM, KNN, Regularization, LDA/QDA, Models optimized with K-fold Cross Validation (R). Visualization and dashboard with Tableau.

EDUCATION

University of California, Santa Barbara

BS - Computer Science, BS - Statistics & Data Science

September 2018 - June 2022

GPA: 3.73/4.00

SKILLS AND STRENGTHS

Languages

Python, Go, R, SQL, C++, HTML, CSS

Software & Tools

L^AT_EX, Jira, Sketch, Figma, Confluence, Google Analytics, Tableau, Git