AUSTIN MAC

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EXPERIENCE

Tesla   August 2020 - December 2020
Software Engineering Intern   *Fremont, CA*

- Energy Operations, Field Ops Analytics

Roblox   June 2020 - August 2020
Software Engineering Intern   *San Mateo, CA*

- Built Nomad Usage Resource Dashboard to monitor resource usage on container orchestration servers, calculate waste, aid capacity planning (Docker, Golang, Grafana, SQL Server)
- Used threads for concurrent execution of data collection/processing/aggregation per server (Golang)
- Built RESTful API to return job level resource usage from Hashicorp's Nomad
- Open source project repo: `https://github.com/Roblox/rblx_nurd`

Interview Query   October 2019 - May 2020
Data Science Intern   *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   April 2019 - October 2019
Data Analyst   *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   Sep. 2018 - Jun. 2022
BS - Computer Science, BS - Statistics & Data Science   *GPA: 3.72/4.00*

SKILLS AND STRENGTHS

Languages	Python, Golang, R, SQL, C++, HTML, CSS
Software & Tools	LaTeX, Jira, Sketch, Figma, Trello, Google Analytics, Tableau, Git