

AUSTIN MAC

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EXPERIENCE

Media Skill Research Lab

Research Assistant

May 2021 - Present

Santa Barbara, CA

- Developed email client simulator with text prediction to measure automation bias (Express, Node.js, PostgreSQL, Keras)
- Deployed with Heroku

Citadel

Software Engineering Intern

March 2021 - June 2021

Chicago, IL

- Deployed SNMP trap receiver on Kubernetes (Docker, Bash, Python, Splunk, Vault, Kerberos, Pagerduty)
- Built a data collector to publish stored procedure outputs to Kafka and consume outputs from Kafka to Clickhouse (Python)
- Created command line tool to suppress PagerDuty Alerts (Python)

Tesla

Data Analytics Intern

August 2020 - December 2020

Fremont, CA

- Built ETL data pipeline for predictive analysis of job efficiency using historical weather patterns (Python, Pandas, SciKit-Learn, SQLAlchemy, SQL Server, MySQL, Ansible)
- Built dashboards to flag unusual install jobs, plan capacity, and visualize office jurisdiction (SQL Server, Tableau)
- Automated crew capacity modeling process (Python, Excel)

Roblox

Software Engineering Intern

June 2020 - August 2020

San Mateo, CA

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

EDUCATION

University of California, Santa Barbara

Computer Science, Statistics & Data Science

September 2018 - June 2022

GPA: 3.74/4.00

PROJECTS/RESEARCH

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

GPS location based Venmo scavenger hunt game for web, Android, and iOS developed at UCSB's 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.

SKILLS

Languages

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

Tools

L^AT_EX, Jira, Confluence, Sketch, Figma, Tableau, Git, Docker, Kubernetes