

# AUSTIN MAC

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## EXPERIENCE

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### Citadel

*Software Engineering Intern*

March 2021 - June 2021

*Chicago, IL*

- Deployed SNMP trap receiver on Kubernetes (Docker, Bash, Python)
- Logging with Splunk, secret management with Vault, authentication with Kerberos
- Built a proof of concept control plane with temporal.io to demonstrate stateful workflows (Go)

### 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](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)

## EDUCATION

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### University of California, Santa Barbara

*Computer Science, Statistics & Data Science*

September 2018 - June 2022

*GPA: 3.74/4.00*

## PROJECTS/RESEARCH

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### 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 (Firebase), 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 AND STRENGTHS

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### Languages

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

### Tools

L<sup>A</sup>T<sub>E</sub>X, Jira, Confluence, Sketch, Figma, Tableau, Git, Docker, Kubernetes