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# EDUCATION

**University of California, San Diego – 2023 | B.S Data Science**

**Courses**: Data Analysis & Inference, Probabilistic Modeling & ML, Data Visualization, Business Analytics, Database Management, Recommender Systems & Web Mining, Data Structures & Algorithms, Spatial Data Science

**Tools & Skills**: Python, SQL, Tableau, Power BI, Excel, R, AWS, Agile, Unix, Docker, Git & CI/CD, ArcGIS

# EXPERIENCE

## Delta Air Lines IT | Quality Assurance DevOps Intern

## May 2022 – Jul 2022 | Atlanta, GA

* Participated in daily sprints and meetings in a cross-functional Agile team to perform ad-hoc analysis, troubleshoot CI/CD pipelines issues, and automation testing removing weekly blockers for teams.
* Developed SQL queries to extract large quantitative and qualitative logs data and analyze outliers and error prone areas of the codebase to optimize the creation quality control code for the DevOps team.
* Implemented prototype code transforming Java-based applications into an AWS Lambda Python framework alongside 5 senior Java developers to foster new strategies and business processes.

## Delta Air Lines TechOps | Data Analyst Co-op

#### Jun 2021 – May 2022 | Atlanta, GA

* Remodeled various teams' Excel dashboards into interactive Tableau dashboards to automate 10+ repetitive manual KPI reports across departments which increased operational efficiencies.
* Spearheaded a cross-team solution that automates MS Access queries utilizing SQL and PySpark to compile previously inaccessible data and expedite the generation of engine sales performance reports.
* Formulated processes to extract and analyze data from spreadsheets and relational databases across 3 teams predicting the volume of issues to define key requirements and understand key business problems.

## UCSD Health | Database Assistant

#### Jan 2021 – Jun 2021 | San Diego, CA

* Generated and maintained 10+ R scripts that perform quality control of Adolescent Brain research data that spans over 9 research groups to analyze data loss and identify inconsistency in the data mining instruments.
* Extracted and examined structured and unstructured data from multiple disparate sources and collaborated with a large team of researchers to formulate data collection plan and answer any data collection issues in the system.

## Tourmaline Labs | Student Project Lead

#### Sep 2020 – Feb 2021 | San Diego, CA

* Led and coordinated a team of 4 students analyzing 300,000+ rows of historical transportation and drivers’ behavior data from a Snowflake cloud database generating 2 new KPIs in relation to speeding and accidents.
* Identified patterns in temporal and geographical variables in 865 drivers classifying poor performing drivers using SQL and Python and generated PowerBI dashboards to formulate a data-driven employee benchmarking system.

# PROJECTS

### [Optimizing 2020 Election Polling Locations](https://github.com/renaldyh27/Optimizing-2020-Polling-Locations) (ArcGIS, Python) | Dec 2020

* Implemented a Location-Allocation analysis with ArcGIS and Python to generate 200+ new polling locations in San Diego county using past elections data to maximize in-person voting for the 2020 US Presidential Election scenario.

### [Covid-19 Risk Analysis of Schools (ArcGIS, Python) | Aug 2020](http://tinyurl.com/covidcool4school)

* Directed a project team of 5 students creating a geospatial data collection pipeline to perform spatial analysis on schools in San Diego as well as managing problems between members and placed 2nd in COVID-19 Data Challenge.

### Yelp Reviews Sentiment Analysis Project (Python) | Nov 2020

* Benchmarked and optimized the performance of ML models such as Naïve Bayes, Logistic Regression, SVMs and Recurrent Neural Networks to determine the tradeoffs between accuracy and efficiency of simple vs complex models.

# LEADERSHIP

## Delta Air Lines | Chair of Co-Op Professional Development Committee

* Directed professional development events such as technical learning sessions and networking opportunities with company leaders and troubleshooted problems for a class of 100+ co-ops/interns.