Chloe Saleh
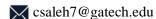
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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY	**Atlanta, Georgia**
M.S. in Computational Science and Engineering	*May 2024*

Relevant Courses: Deep Learning, Advanced Machine Learning, Artificial Intelligence, Statistical Learning and Data Mining, Data and Visual Analytics   GPA: 4.0/4.0

B.S. in Industrial and Systems Engineering — *May 2023* — GPA: 3.8/4.0

Awards: **"Best Overall Capstone Project"** 1st out of 72 teams

Relevant Courses: Machine Learning, Data Structures & Algorithms, Regression & Forecasting, Advanced Engineering Optimization, Advanced Stochastics Systems, Advanced Simulation Analysis

PROFESSIONAL EXPERIENCE

AMAZON — **Luxembourg**
Business Intelligence Engineer Intern — *Sep 2022 – Jan 2023*

- Worked for the pricing team and developed automated weekly reports using **SQL** to centralize EU pricing metrics resulting in a **48-hour** monthly time savings and widespread adoption across **36 internal teams**
- Designed a dashboard using **AWS Quicksight** managing all aspects of the technical development and partnered with **12 stakeholders** across the EU to gather key metrics and requirements needed
- Optimized SQL queries for **Redshift** and **MySQL**, incorporating **sub-queries**, advanced **indexing strategies**, and **join logic**, resulting in a **47% reduction** in average query runtime.

HERMÈS — **Dubai, United Arab Emirates**
Business Analyst Intern — *May 2022 – Aug 2022*

- Designed and implemented a **Python** web scraping script using the **BeautifulSoup** library to extract product information from multiple e-commerce platforms, resulting in a database of over **10,000** items improving market research accuracy by **20%**
- Applied time series forecasting models using **R**, to forecast market trends resulting in a **25%** improvement in prediction accuracy
- Automated the weekly executive reports for **3 departments** using **Excel VBA** improving the process from **50 to 2 min** per report.
- Delivered weekly presentations of findings and recommendations, translating the metrics and business impact to senior leadership

PROJECTS

BITCOIN PRICE PREDICTION USING ML MODELS — *May 2022 – Aug 2022*

- Link to project: **Bitcoin price prediction using ML models**
- Led a team of **4 students** in a project focused on the estimation of Bitcoin pricing using different macroeconomic factors
- Utilized **DBSCAN** clustering algorithm to identify and remove **2,500** anomalous data points
- Developed a customized script in Python to handle **8,000** data discrepancies and inconsistencies in the Bitcoin pricing data
- Performed **PCA analysis** on the dataset resulting in a reduction of features by **25%** without compromising model accuracy
- Implemented **decision trees** and **random forests** algorithms in **Jupiter Notebook** and achieved an average accuracy rate of **85%**

TRAVEL RESERVATION DATABASE SYSTEM, 2021 — *Oct 2021 – Dec 2021*

- Designed an online system using a **relational DBMS** that supports **SQL queries** for online travel reservations
- Developed a data model using **ER Diagrams** that incorporated **32 entities** and **40 attributes** resulting in a comprehensive design
- Implemented **20 stored procedures** and **15 views** providing information about the database state and allowed modifications

LEADERSHIP

- Probability and Statistics Teaching Assistant — *May 2023 – Present*
- Regression and Forecasting Tutor — *Aug 2022 – Apr 2023*

SKILLS

- **Programming:** Python, SQL, R, Java
- **Frameworks:** TensorFlow, PyTorch, Scikit-learn, Scipy, Beautiful Soup
- **Visualization:** Tableau, Quicksight, Power BI, Matplotlib, Ggplot2
- **Languages:** English (native), French (native), Arabic (fluent), Spanish (intermediate)