

# LONG NGUYEN

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## EDUCATION

### UNIVERSITY OF ROCHESTER

#### STEM Master of Science in Data Science

- Relevant courses: Data Mining, Comp. Statistics, Statistical Machine Learning, Database Management, Deep Learning.

### AUGUSTANA COLLEGE

#### Bachelor of Arts in Applied Mathematics

Rochester, NY

Aug 2022 - Dec 2023

Rock Island, IL

Aug 2018 - May 2022

## EXPERIENCE

### REL8ED.TO ANALYTICS

#### Data Science Intern

Rochester, NY

Jul 2023 - Aug 2023

- Led an end-to-end LLM project to classify North American companies into their respective industries, employing **Python**, OpenAI embedding model, and utilizing the ChatGPT chatbox function with optimized prompts.
- Achieved 90% in data retrieval time by building 5 **Python** scrapers to extract homepage information for 10M companies.
- Collaborated with business teams to convert complex business logic, and successfully built 6 **Excel** dashboards incorporating pivot tables, XLOOKUP based on client requests, reducing delivery time by 70%.

### UNIVERSITY OF ROCHESTER

#### Teaching Assistant

Rochester, NY

Aug 2023 - Dec 2023

- Mentored students in statistical areas: descriptive statistics, probability, hypothesis testing, ANOVA, and regression analysis.
- Led 10 review sessions for exams and projects using **PowerPoint**, resulting in an 80% increase in students' overall grades.
- Empowered students in understanding **R** packages and creating impactful reports with **RMarkdown**.

### LEAFPRINT ENTERPRISES

#### Data Analyst Intern

Cedar Hills, UT

Jan 2022 - May 2022

- Led global municipal research, collected 100k+ data points, and delivered actionable recommendations to enhance World Archives's municipal dictionary.
- Utilized **Python**'s pandas for data cleaning and transformation, reducing errors and retrieval time by 90%.
- Developed and maintained interactive dashboards and reports using **Tableau** to support data driven decision-making.

### BENIT PTY LTD

#### Data Analyst Intern

Hanoi, Vietnam

Mar 2021 - Jul 2021

- Developed an optimized **SQL** data model for TwelveAPI's Forex data, improving access time by 80%.
- Utilized **AWS S3** bucket and **MongoDB** for scalable database management, resulting in a 70% reduction in overall latency.
- Integrated **Python** with **SQL** databases to streamline **ETL** processes, ensuring accurate financial insights via dynamic dashboards and reports.

## PROJECTS

### Data Analytics: Behavioral Segmentation for a hotel and resort company (RIT competition - ongoing)

- Building a K-means clustering model in **Python** on a hotel and resort dataset of > 80k customers to segment them into different behavioral groups, and provided key strategies to enhance customer experience and maximize revenue for each segment.

### Machine learning: [Mental health classification](#)

- Built 5 predictive models in **Python** to predict whether a tech employee sought mental health treatment, with SVM attaining a leading F1 score of 75% and accuracy of 74.6%.

### Data Engineer: [NYC bike tracking forecast](#)

- Achieved 70% accuracy in building a forecasting model using **Prophet** for Citibike Bike Sharing app on **Databricks**.
- Collaborated on **GitHub**, developed end-to-end **ETL** pipelines, and created bronze, silver, and gold data tables using **PySpark**.

## TECHNICAL SKILLS

- **Programming:** Python, R, SQL
- **Big data processing:** Databricks, PySpark
- **BI technologies:** Tableau, PowerBI, Excel
- **Database:** MySQL, PostgreSQL
- **Proficiency:** queries & joins, data modeling, statistical analysis, predictive ML modelings, Jira (sprint)