

# Thomas Christo

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## Experience

### Guardian Life

Holmdel, NJ

Data Engineer - Production Support Intern

June 2024 - Aug 2024

- Successfully migrated **200+ Jenkins Parameter Store** variables to **AWS SSM** allowing for **40% faster retrieval time** and **enhanced architecture security** measures.
- Transformed **20+ HQL** scripts of over **1 million+ records** to **SQL** as part of **ETL pipeline** updates outlined by shift in data quality standards.
- Converted **10+ ETL pipeline** jobs from **AWS EMR** to **Databricks** into production resulting in **70% faster runtime** and **35% reduction in costs**.

### Freewheel, a Comcast Company

New York, NY

Software Engineer (Data) Intern

May 2023 - Aug 2023

- Prepared ad hoc queries on data tables **5+ TB** from **AWS S3** for master table validations and data analysis with **Pyspark, Pandas, and SQL**.
- Designed an **ETL pipeline** by developing **Python Wheel** and **Databricks Workflows** to streamline process of creating and saving **Delta Tables** into **Databricks Unity Catalog** with updates **70 million+ rows per day (10+ GB)** in **<20 minutes**.
- Developed an **Anomaly Detection Dashboard** within **Databricks** for Samba viewership/device data complete with **daily alerting and updates** saving engineers development time from debugging and data validations by **15%**.

### Brookhaven National Laboratory

Upton, NY

Research Intern

Jun 2022 - Aug 2022

- Automated stellar model running process on a SLURM cluster and data collection of models using **Bash, Sed, and Python** which **decreased model runtime and data extraction by 55%**.
- Developed tools that organized **200+** stellar model outputs, sped up computation/analysis by **70%**, and established data visualizations for the subsequent paper using **NumPy, Pandas, SciPy, Matplotlib, and Excel**.

## Projects

### R.A.M. Trading

Project Link

July 2023

- **Python** stock trading bot to compare the success of **3** different trading strategies that traded for **270+ days**.
- **LSTM** neural network trained by **S&P 500 stock data** implemented with **Keras, NumPy, Pandas, and SKlearn**.
- Accounts' data saved using a **MYSQL** database with over **8000+ records**.

### BuyMe Auction Service

Project Link

May 2024

- **Java JDBC Full Stack Auction Website** created in conjunction with **MYSQL, JavaScript, CSS, and JSP**.
- Spearheaded the development of an auction website supporting **1000+ concurrent auctions** with three other developers to host a marketplace for different types of computer systems.
- Created a customer support portal with **60+ questions** being asked and answered **each day**.

### Cozy Cafe

Project Link

March 2024

- **Android Mobile Application** made with **Java, Android Studio, and JUnit** for quality assurance and unit testing.
- Users can order **3 types** of menu items complete with a multitude of assorted toppings and flavors resulting in **25+ options** to choose from.

## Skills

<b>Programming</b>	Python (PySpark, NumPy, Scikit-learn, Flask), R(ggplot2), Java(Spring Boot, JDBC), HTML/CSS, JavaScript(Node.JS), SQL
<b>Miscellaneous</b>	Linux, Shell (Bash/PowerShell), Git, AWS, Databricks, Airflow, CI/CD, Docker, Tableau, Microsoft Office(Excel, Powerpoint)
<b>Soft Skills</b>	Adaptability, Patience, Teamwork, Problem-solving, Critical Thinking, Conflict Resolution, Flexibility, Documentation/Writing

## Education

### Rutgers University

New Brunswick, NJ

B.S. Computer Science

Sept 2022 - Current

- GPA: 3.946 (Dean's List)
- **Courses:** Software Methodology, Deep Learning, Data Science, Bayesian Data Analysis, Regression Methods, Principles of Data Management