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 implemented with **Keras, NumPy, Pandas, and SKlearn**.
- **LSTM neural network** trained on **S&P 500 stock data** to compare the success of **3** different trading strategies that traded for **270+ days.**
- 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** created using the **MVC** and **Singleton** design patterns with **Java, Android Studio, and JUnit** for quality assurance.
- 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

Programming	Python (PySpark, Scikit-learn, Flask), R (ggplot2, tidyverse), Java (Spring Boot, JDBC), HTML/CSS, JavaScript (Node.JS), SQL
Miscellaneous	Linux, Shell (Bash/PowerShell), Git, AWS, Databricks, Airflow, CI/CD, Docker, Tableau, Microsoft Office (Excel, Powerpoint)
Soft Skills	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