

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

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

BuyMe Auction Service

Project Link

May 2024

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

Cozy Cafe

Project Link

March 2024

- Developed a coffee shop **Android Mobile Application** using **Java** and **Android Studio**.
- Designed app with the **MVC** and **Singleton** design patterns along with **JUnit** for **unit testing** and quality assurance.

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