Thomas Christo

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About

Rutgers University Computer Science Student with internship experience in Big Data analysis, software development, and cloud technologies as well as personal project experience in data visualization, automation tools, and machine learning. Seeking opportunities in software engineering, data analysis, and data engineering.

Experience

Freewheel   *New York, NY*

Software Engineer (Data) Intern   *May 2023 - Aug 2023*

- Worked in an **AGILE** framework and took part in team standups, grooming sessions, ticket reviews, and sprint planning using **Jira** to keep track of tickets, epics, and other tasks.
- Utilized **Pyspark**, **Pandas**, and **SQL** for ad hoc queries on raw data tables hundreds of terabytes large located in **AWS S3** for master table validations and data analysis.
- Designed an **ETL pipeline** using a **Python Wheel**, including a **Yaml** config and **logger** for job monitoring and debugging, and **Databricks Workflows** to streamline process of creating and saving **Delta Tables** into **Databricks Unity Catalog** for ease of use and faster load times when querying data for EDA.
- Completed task of developing an automated **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**.
- Developed tools that organized hundreds of stellar model outputs, sped up computation/analysis by **70%**, and created data visualizations for the subsequent paper using **NumPy**, **Pandas**, **SciPy**, **Matplotlib**, and **Excel**.
- Used **Git** version control software for collaboration and saving of developed tools on NNDC **Gitlab** server.
- Completed full written report of research process and work accomplishments using **LaTeX** as well as poster presentation using **Microsoft Office**.

Projects

R.A.M. Trading

Personal Project

- Set of **Python** stock trading bots used to compare the success of different trading strategies with **Alpaca-Py API**.
- **Keras**, **NumPy**, **Pandas**, and **SKlearn** used to implement **LSTM** neural network trading method.
- **Pandas** and **IEX Cloud API** used for gathering and analysing stock data used in algorithmic value trading method.
- **Requests**, **NLTK**, and **Pandas** used for gathering, cleaning, and analysing data collected from subreddits.
- Accounts' data saved using a **MYSQL** database and explored using **SQL** scripts from **MYSQL Workbench**.
- **Streamlit** dashboard created to monitor activity and status of each trading account.
- Trading Process was entirely automated using **Powershell** and **Windows Task Scheduler**.

Indeed Scraper

Personal Project

- **Python web-scraping** bot utilizing **BeautifulSoup** and **Selenium** to search Indeed.com and compare different Data jobs by salary ranges, skills, and requirements in large US cities.
- Utilized **NLTK** and **Regex** to clean raw data and **Matplotlib**/**Seaborn** for data visualizations.
- **SQLite3** was used for storing gathered job data and **SQL** scripts were utilized for data exploration.
- **Tableau** dashboard created for further visualization of data analyst roles based on **SQL** scripts

Education

Rutgers University   *New Brunswick, NJ*

B.S. Computer Science   *Sept 2022 - Current*

- GPA: 3.946
- **Courses:** Mathematical Theory of Probability, Discrete Mathematics, Software Engineering, Data Structures, Computer Architecture, Bayesian Data Analysis, Regression Methods, Data 101

Union County College   *Cranford, NJ*

A.S Computer Engineering   *Sep 2020 - May 2022*

- GPA: 4.0
- Phi Theta Kappa Member
- NASA Community College Aerospace Scholars