

Timothy Moll

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EDUCATION

UNIVERSITY OF ST. THOMAS

Bachelor of Science

Saint Paul, MN

Sept 2018 – May 2022

Major in Computer Science; Minors in Statistics and Data Analytics

Major field GPA: 3.91/4.0; Dean's List Recipient 2018-2021

Relevant Coursework: Deep Learning; Data Mining & Machine Learning; Object Oriented Programming

WORK EXPERIENCE

U.S. BANK

Data Analytics Intern

Minneapolis, MN

Jun 2021 – Nov 2021

- Built Data pipelines that serviced over 200 app development and machine learning teams
- Analyzed data from 5,000,000,000+ daily logs, gaining insight on application performance metrics
- Overhauled obsolete legacy source code of two production applications, resulting in increased usability and reduced run time users of Kibana dashboards
- Operated alongside eight Data Engineers and System Administrators to maintain and improve data pipeline
- Directed NoSQL database, three Elasticsearch instances on AWS, Google Cloud, Kubernetes

UNIVERSITY OF ST. THOMAS

Conference Crew Leader

Saint Paul, MN

Jun 2019 – Sept 2019

- Managed team of six workers, assisting in completion of the campus' conference hospitality tasks
- Increased team's task completion 150% from previous years by changing multiple workflow procedures
- Supervised schedules of each member while keeping on track of timely completion of daily tasks
- Conducted daily interactions with prospective students and conferences, ensuring customer satisfaction

PROJECTS

Neural Networks for Asteroseismology Prediction

Mar 2022

- Produced neural network to predict star classification using Python, TensorFlow, and Keras
- Conducted training on models to predict binary classification of star type based on numerical predictors
- Deployed use of Relu and Sigmoid activation functions to maximize accuracy and minimize loss
- Resulted in a test accuracy maximum of 97.34% after 150 epochs of training

Statistical Study on Teen Suicidality

Mar 2021

- Designed and developed study on the CDC's "Youth Risk Behavior Surveillance System Survey" dataset
- Collaborated as a member of a four-person team to quantify a complex and emotive issue of teen suicidality
- Leveraged R for running analysis on real-world dataset of over 1,800,000 datapoints
- Created Structural Equation Model to perform an analysis on 30+ suicide risk factors in teens

Bitcoin-Clone Wallet

Apr 2021

- Designed and implemented bitcoin-clone wallet system using Python, utilizing URLLib to connect to website
- User could sign into personal wallet, see balance, send coins, or mine for additional coins
- Encrypted transactions and contributed 150+ transactions to class blockchain, maintaining ledger
- Conducted tests of validity on inputted transactions to sustain accurate log of transaction to be sent

SKILLS

Experienced in: Python, TensorFlow, Keras, Java, Elasticsearch, Agile, JavaScript, Git, Linux, Numpy, Pandas
Logistic Regression, K-means clustering, Decision Trees, Neural Networks, LSTM

VOLUNTEERING

AMERICAN RED CROSS

Jul 2021

- Assisted in mapathon to map high risk areas of the Padma River Basin area in Bangladesh