Leo Ding

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EDUCATION

New York University   Sep 2020 – May 2023
B.A. in Computer Science and Data Science, GPA: 3.90   *New York City, NY*
- Honors: Magna Cum Laude, Phi Beta Kappa, University Honors Scholar
- Coursework: Processing Big Data for Analytics Applications, Data Management and Analysis, Data Structures and Algorithms, Deep Learning, Machine Learning, Parallel Computing, Probability and Statistics

TECHNICAL SKILLS AND CERTIFICATIONS

AWS, Certified Cloud Practitioner   Feb 2024

Languages: Go, Python, JavaScript, SQL, HTML, CSS, Java
Technologies: AWS, Docker, PostgreSQL, React, Tailwind, Nginx, NumPy, Pandas, SciPy, matplotlib, scikit-learn, TensorFlow, PyTorch

PROJECTS

Coffee Shop Status V3 | *Go, PostgreSQL, Docker, AWS, React, Tailwind* | Code | Website   Jul 2023 – Oct 2023
- Developed a status display web application utilizing a Go backend and React frontend, hosted on AWS
- Implemented password authentication for admin privileges, allowing authorized users to modify the status

Chat Room App V2 | *Go, Docker, AWS, React, Tailwind* | Code | Website   Jul 2023 – Oct 2023
- Developed a chat room application featuring a Go backend and React frontend, hosted on AWS infrastructure
- Implemented WebSockets to enable real-time communication between the frontend and backend components
- Incorporated a publisher-subscriber mechanism to deliver relevant texts to their respective chat rooms

News and Social Media Sentiment Analysis | *Python, Pandas, scikit-learn* | Code   Nov 2022 – Dec 2022
- Designed a proportional frequency scoring system to assess sentiments linked to various words
- Tuned model hyperparameters using grid search cross-validation leveraging 1.6 million data points
- Yielded a 20% reduction in error for news data and a 32% decrease for social media data compared to the baseline

Soccer Analytics | *Java, SQL, Spark, Hadoop, Hive, Impala* | Code   April 2022 – May 2022
- Examined 250,000 data points associated with the English Premier League, Spanish La Liga, and Italian Serie A
- Automated the entire data analysis process using shell scripting techniques to improve development efficiency
- Trained Logistic Regression models for classifying winners and losers to identify contributing factors to winning
- Achieved noteworthy model performance with an average Area Under Receiver Operating Characteristic Curve (AUC-ROC) score of 0.81

EXPERIENCE

Lead Data Scientist   Aug 2020 – Dec 2020
NASA SPOCS Initiative   *Remote*
- Formulated strategies for experimental data collection and devised procedures for post-experiment data analysis
- Proposed an experiment exploring virulence and antibiotic resistance in E. coli within microgravity environments

Web Development Intern   June 2019 – July 2019
California State University, Los Angeles   *Los Angeles, CA*
- Created a communication platform for professors and students using HTML, CSS, JavaScript, SQL, and PHP
- Strengthened website security by implementing PHP authentication and parameterized SQL queries