Leo Ding

626-228-7378 | leo.ld.ding@gmail.com | leoding.com | linkedin.com/in/leo-ding | github.com/leoldding

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: Deep Learning, Machine Learning, Parallel Computing, Data Structures and Algorithms, Processing Big Data for Analytics Applications, Data Management and Analysis, Probability and Statistics

TECHNICAL SKILLS

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

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