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: 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

Certified Kubernetes Administrator (CKA), Linux Foundation   Issued Jul 2024
Certified Developer - Associate (CDA), AWS   Issued Apr 2024
Certified Cloud Practitioner (CCP), AWS   Issued Feb 2024

Languages: Go (Golang), Python, Java, JavaScript, TypeScript, SQL, HTML, CSS
Technologies: AWS, Kubernetes, Docker, PostgreSQL, Spring Boot, ReactJS, TailwindCSS, Nginx, NumPy, Pandas, SciPy, matplotlib, scikit-learn, TensorFlow, PyTorch

PROJECTS

Job Application Tracker CLI Tool | *Go* | Code   Mar 2024
- Developed a command-line interface (CLI) tool in Go to streamline job application management
- Automated scraping and parsing for job description data sourced from LinkedIn, Greenhouse, and Lever web pages
- Integrated Notion's API to facilitate seamless transmission of scraped information into our database system

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
- Created a CI/CD pipeline using Github Actions / Workflows and AWS Elastic Beanstalk with a modified AWS CloudFormation stack to automatically update and deploy AWS EC2 instances
- Engineered real-time messaging between multiple users using a publisher-subscriber mechanism
- Implemented WebSockets to enable real-time communication between the frontend and backend components

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   Apr 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

Data Scientist   Aug 2020 – Dec 2020
NASA SPOCS Initiative   *Remote*
- Formulated strategies for experimental data collection and devised procedures for post-experiment data analysis
- Collaborated closely with the engineering team to strategize and refine logistics for data collection processes
- Proposed an experiment exploring virulence and antibiotic resistance in E. coli within microgravity environments

Web Development Intern   Jun 2019 – Jul 2019
California State University, Los Angeles   *Los Angeles, CA*
- Created a web-based announcement platform from scratch using HTML, CSS, JavaScript, SQL, and PHP
- Enabled faculty to efficiently communicate with students via a user friendly design
- Ensured security by implementing PHP authentication and parameterized SQL queries