

Leo Ding

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Education

September 2020 - Present (Expected May 2023)

New York University – B.A. in Computer Science and Data Science (GPA: 3.90)

Relevant Coursework: Processing Big Data for Analytics Applications, Data Management and Analysis, Probability and Statistics, Basic Algorithms

Projects

- [Coffee Shop](#) (Docker, Golang, SQL, AWS, HTML, CSS, JavaScript)
 - **Golang** handled **password** and **session authentication**, HTTP request processing, and **PostgreSQL** manipulation
 - **Docker** used to containerize components and allow for communication
 - Hosted on AWS (**Elastic Beanstalk** and **Relational Database Service**)
 - **JavaScript** used to send HTTP requests and update frontend elements
- [Coin Flip](#) (Docker, Golang, SQL)
 - Used **Docker Compose** to link frontend, backend, and database containers
 - **Golang** backend handled HTTP requests and **PostgreSQL** communication
- [Soccer Analytics](#) (Java, SQL, Scala)
 - Analyzed a decade worth of data from three top European leagues
 - Classified winners and losers using **Logistic Regression**
 - Grouped potential skill difference using **K-Means**
- [Spam Classifier](#) (Python)
 - Determined word importance in SMS messages using **TfidfVectorizer**
 - Classified spam messages using a **Logistic Regression** model
- [Movie Ratings Analysis](#) (Python)
 - Reduced features for analysis using **Principal Component Analysis**
 - Evaluated relationships between movies using **Multiple Linear Regression**

Technical Skills

Fluent: Python

Proficient: Golang, Docker, R, Java, PostgreSQL

Familiar: AWS, Git, Hadoop, Hive, Impala, Spark, HTML, CSS, JavaScript

Experience

Data Science Lead – NASA Student Payload Opportunity with Citizen Science

August 2020 - December 2020

- Collaborated with university students from USC, UCLA, and UC Berkeley
- Team proposed an automated experiment regarding virulence and antibiotic resistance in E. coli in microgravity environments
- Determined **data collection and analysis needs** for proposed project