Nathan Chung

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Education

2019-09 - 2023-05

Computer Science, Bachelor of Science

University of Maryland—College Park College Park, College PARK

- **University Scholars Program** - Science, Discovery, and the Universe (3% acceptance rate for applicants)
- **Organizations:** Alpha Kappa Psi Professional Business Fraternity

Work History

2022-07 - 2022-08

Data Science / ML Engineer Intern

Condé Nast, New York City

- Assigned to Project SPIRE - Machine Learning Ad-Targeting Project that utilizes first/third party data to feed ML models that identify target customer audience segments for advertisement
- Addressed data pipeline debt within SPIRE by implementing dataset/expectation suite profilers in order to automate data validations
- Designed workflow to run data backfilling to address a 6-day data ingesting lag at batch time
- Collaborated with Data Engineering/Data Science teams to build data workflows, create tools for data validation processes, and contribute to codebase.

2021-04 - 2021-08

Data Science Intern

Praxis Engineering, Annapolis Junction, MD

- Designed a video analysis tool that handles large quantities of video data for audio and video/image processing in order to provide analysts with refined and customizable information about the dataset
- Some features include sentiment analysis from text extracted from audio, detection of objects from images using deep learning models, and computer vision
- Leveraged Yolov3 and Resnet50 deep learning models for object recognition using datasets taken from kaggle and fine tuned them to correlate certain objects with different events. Resulted in 80%+ accuracy
- Implemented in a cloud-based environment, utilizing AWS Lambda for serverless computing.

2020-07 - 2020-08

Software Engineering Virtual Experience

JP Morgan Chase, Remote

- Designed a dashboard to allow equity traders to visualize and monitor the performance of various trading strategies in real-time
- Leveraged JP Morgan's open source visualization framework (Perspective) to support stock filtering and aggregation functionality
- Implemented calculation pipelines to compute metrics such as bid-ask spreads and simple moving averages in real-time

Projects

Fifa 20 Player Analysis - nathanchung20.github.io | Python, Jupyter

- Constructed a guided data science pipeline tutorial that analyzes a Fifa2021 player dataset.
- Ran Exploratory Data Analysis (EDA) on dataset, created visualization./correction maps to identify key skillsets in players.
- Leveraged linear regression model to calculate predicted outcomes for parameters that had large influences.

Predicting Stock Prices with Linear Regression | Python, SKLearn

- Standardized stock ticker data from Quandl via Pandas Dataframe
- Developed a Linear Regression Model to predict stock prices 30 days into the future given adjusted closing prices.
- Used an 80-20 split for test/train datasets, trained a linear regression model over the training data and tested for accuracy.

Skills

Technical Skills: Java, C, Python, Spark, PySpark, Ruby, OCaml, Flask, JavaScript, SQL, Assembly (AVR), Swift

Tools: AWS, S3, EC2, Azure Databricks, Docker, Anaconda/Miniconda, Airflow, Astronomer, Jenkins, Jira, Vscode, Kibana, Git, Emacs, Unix, Linux, Jupyter Notebook, Cloud9, TensorFlow, Xcode, Excel, Microsoft Azure

Languages: Native English, Limited Working Proficiency in Korean

Interests/Hobby: Making Clothes, Music Production, Fashion, Soccer