Noah Law

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EDUCATION

Georgia Institute of Technology **Aug. 2020 – Present**

***GPA**: 3.97/4*

Pursuing BS in Industrial Engineering

Expected Graduation Date: December 2024

- Notable coursework: Data Input/Manipulation, Regression and Forecasting, Simulation Analysis and Design, Intro to Database Systems, Engineering Optimization, Stochastic Manufacturing & Service Systems, Applied Combinatorics, Discrete Math, Financial and Managerial Accounting

EXPERIENCE

Owner & Operator of Several Online Marketplaces **July 2020 – Present**

- Operated multiple highly profitable e-commerce platforms specializing in rare clothing items, high-end art, and footwear with over a 25% net operating margin and over $100,000 in revenue
- Sold items on over 6 platforms including eBay, Amazon, Etsy, Grailed, StockX, and Poshmark
- Created an inventory system for sorting and categorizing items allowing for efficient shipping
- Created a data pipeline to automatically alert me of profitable clothing items being listed, which I used to source the majority of my items starting 2023 (detailed in projects section)

NOVA Engineering & Environmental **Aug. 2019 – Nov. 2019**

Paid Internship under Mary Smith (Soils Lab Manager)

- Analyzed soil samples sent in by companies for physical properties including pH, resistivity, optimal density, granular size, proctor point, and optimal moisture density following ASTM standards
- Conducted a research project on examining the physical effects of adding recycled plastic to concrete
- After collecting data and running ANOVA single factor tests, found that concrete with 0.5% plastic composition increased compression strength and provided a sustainable way to recycle plastic

SELECTED PROJECTS

Automated Identifier of Newly Listed High Profit Items — Python & SQL

Libraries: Selenium, Pyppeteer, pandas, SQLite, FTP, BeautifulSoup, Regex, Threading

- Created engine where a price, image URL, and title is inputted and using a combination of an image neural network and rule-based classification system, identifies over 80 pre-selected >100% profit margin clothing items
- Programmed web-scrapers using Selenium and Pyppeteer utilizing rotating proxies to scrape new listings on the 6 largest clothing platforms 24/7, executing every 5 seconds and scraping ≈ 5 GB of data per day
- Engineered an end-to-end pipeline which: scraped data using Heroku deployment (via PyCharm) of my scrapers, transferred the data as a DataFrame using FTP (File Transfer Protocol), ran the data through my image and text engine, triggered alerts via a mobile app for high-profit items, and stored relevant data in SQL databases
- Made visualizations of runtimes using Tableau to analyze how runtimes change over time and identify outliers

Multivariable Analysis of Countries' Happiness — R

Techniques Used: Stepwise regression, correlation matrix, residual/normality/autocorrelation analysis

- Developed a multiple linear regression model in R for modelling over 120 countries' happiness and analyzed 40 factors to see which ones had the greatest predictive nature for a country's happiness
- Found that infant death, preventable diseases, and overly dense city populations led to decreased happiness

SKILLS & INTERESTS

- **Skills:** Python, R, SQL, Simio, advanced mathematical and data analysis (competitive math background), working in teams, certified Microsoft specialist in Excel/Word/PowerPoint, web scraping, data engineering
- **Other Python Libaries:** gurobipy, SciPy, Matplotlib, PyMySQL, NumPy, asyncio
- **Interests:** basketball, recreational math, GeoGuessr, health, politics, traveling, football