# CHASE GOLDFELD
## DATA SCIENTIST

## Experience

### Lambda School
**Technical Project Lead**

Remote
Sept. 2020 to Current

- Mentored, led, and communicated with nine students through a cross-functional project
- Hosted daily stand-ups for students on the project and weekly 1:1's
- Improved students problem-solving skills by working through live code challenges
- Reviewed each student's code and gave feedback on areas of improvement
- Provided support through live debugging and Q&A's for all ends of the project

## Projects

### Groa
May 2020

Groa uses machine learning to power an innovative recommendation engine that generates tailored movie suggestions to users based on their unique taste.

**Tech Stack: Word2Vec | AWS | PostgreSQL | Google Analytics | FastAPI**

- Engineered the Google Analytics API to collect, measure, and report key metrics to stakeholders with data visualizations
- Used Slack, Trello, and Notion to collaborate remotely with a team of four Data Scientists and five Web Developers over the span of four weeks
- Built the Groa API using the FastAPI web framework and serves recommendations using a Word2Vec Model
- Implemented the Groa database with PostgreSQL on the AWS Relational Database Service
- Utilized ElastiCache (running Redis) for caching and Elasticsearch service from AWS for searching
- Successfully improved Groa: 66% Decreased Bounce Rate | Improved Model Response Time of 300% | Increased Average Session Duration Time of 665%
- URL | https://www.groa.us
- URL to repo | https://github.com/Lambda-School-Labs/Groa-ds

### Squall Hackathon
Jan. 2020

Squall is a mobile application that allows users in select cities to receive real-time extreme weather updates on their mobile phones via SMS.

**Tech Stack: Heroku | SQLite | Twilio API**

- Utilized Twilio's API and developed the back end using Python to mine and wrangle data to trigger SMS notifications to the user
- Collaborated remotely with a team of two Web Developers and one Data Scientist to build an MVP for a functional mobile application in 24 hours
- Architected the relational database management system with SQLite
- Deployed application using Heroku. URL | https://squallhackathon.herokuapp.com/
- URL to repo | https://github.com/AuFeld/SquallHackathonBackend

### Market Prediction

Market Prediction makes use of machine learning to construct and train a neural network to predict the movement of a stock with time-series data.

**Tech Stack: TensorFlow | Scikit-learn | Beautiful Soup**

- Initiated a web-scrapper with Beautiful Soup that identified current S&P500 companies
- Created an ETL process with Python and scrapped S&P500 company names to import and wrangle data from yfinance
- Utilized Jupyter to construct the neural network architecture and trained the model by identifying days when the stock increased in price
- Recorded a 52.1% accuracy score and outperformed the baseline of 51.7% by hyperparameter-tuning with a grid search: epochs | batch size | learn rate
- URL to repo | https://github.com/AuFeld/Strategy_Testing

### Transfermarket

Transfermarket analyzes companies within a competitive niche market and a high barrier of entry. The EDA focuses on how well the companies invested in assets and their returns within a 365 day period.

**Tech Stack: Jupyter | Scikit-learn | Matplotlib | Seaborn | Eli5**

- Applied Scikit-learn to construct a pipeline that trained and tested data with a Random Forest Classifier that identified the most important features that contributed to successful and unsuccessful assets
- Created data visualizations with Matplotlib and Seaborn for storytelling that pinpointed different investment strategies based on the corporation's market capitalization value
- Made use of Eli5 to display permutation importance based on the feature and its weight
- URL to repo | https://github.com/AuFeld/Transfermarket

## Contact

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## Skills

**MACHINE LEARNING**
Regression
Neural Networks
Natural Language Processing
Statistics

**COMPUTER PROGRAMMING**
Python
Jupyter
Linux
Git
SQL

**DATA VISUALIZATIONS**
Google Analytics
Tableau
Seaborn
Matplotlib
Plotly

**DATA MANAGEMENT, ENGINEERING, & DEPLOYMENT**
RDBMS: PostgreSQL | Heroku | SQLAlchemy
Non-Relational DBMS: MongoDB
DevOps: Docker
Frameworks: Flask | FastAPI

**COMPUTER SCIENCE**
Data Structures
Algorithms

## Education

### Lambda School
Aug. 2020
Data Science

### Florida Atlantic University
May 2010
BBA Business Management

## Previous Work Experience

### Real Estate Associate
2015 to 2019

- Analyzed the residential real estate market in Palm Beach, FL
- Solved problems and educated clients with market data to make decisions tailored to their needs