CHASE GOLDFELD

BACK END ENGINEER

Experience

Lambda School — Remote
Associate Product Lead — Nov. 2020 to Current

- Engineered Google's Tesseract OCR model for Asylum which allows users to upload PDF's into the model, predicts how a judge might rule on a specific asylum case, and identifies specific elements of an asylum case that will most impact a favorable or unfavorable ruling
- Managed and contributed to the production of cross-functional applications, Human Rights First, Asylum, Story Squad, Village Book Builders, and Microfund, including product road maps, user stories, release calendar, and deployment plan for product migration to cloud via AWS
- Served as a liaison between stakeholders and product developers to ensure timely product releases and MVP based on stakeholder needs
- Mentored and guided team leads and students through the Labs program to support the learning and professional growth of Lambda School students

Lambda School — Remote
Data Science Technical Project Lead — Sept. 2020 to Nov. 2020

- Implemented data deduplication for Human Rights First via locality sensitive hashing resulting in mitigated data expenses and an improved model accuracy by 26%
- Led and communicated with teams consisting of up to ten students through a cross-functional project via Agile, Scrum, workflow environment
- 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

Asylum — Jan. 2021 to Current

Asylum, a subsidiary of Human Rights First and a 501(c)3 organization, assists immigration advocates in winning asylum cases by transforming judge rulings into valuable insight. Asylum predicts how a judge might rule on a specific asylum case and identifies specific elements of an asylum case that will most impact a favorable or unfavorable ruling for end-users and lawyers.

Tech Stack: AWS Elastic Beanstalk | Google Tesseract OCR | FastAPI | Docker

- Served as an Associate Product Lead that managed two cross-functional teams consisting of two project leads, eight data scientists, five back end developers, and ten front end developers.
- Worked directly with stakeholder, Kaitlin Locascio, to engineer product roadmap, deployment plan, and key features: scrapping aggregated case files into the analysis engine, constructing data visualizations for case data, and the ability for end-users to upload their own PDF's into the trained Tesseract OCR model
- Migrated application to the cloud via AWS Elastic Beanstalk and AWS RDS
- URL to repo: [DS] https://github.com/AuFeld/Lambda-School-Labs-human-rights-first-asylum-ds-a

Groa — Oct. 2020 to Dec. 2020

Groa uses machine learning to power an innovative recommendation engine with a feedback loop 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%
- Architecture Diagram: https://www.notion.so/Architecture-Details-a8ef24c79c554a0fbf6bfab4163e588c
- URL: https://www.groa.us
- URL to repo: https://github.com/Lambda-School-Labs/Groa-ds

Human Rights First — Sept. 2020 to Oct. 2020

Human Rights First is an independent advocacy and action organization that challenges America to live up to its ideals.
Engineered an interactive 12-month timeline tracking police use of force in the United States.

Tech Stack: AWS Elastic Beanstalk | AWS RDS | PostgresSQL | Python

- Served as a Data Science Project Lead for a cross-functional team consisting of two data scientists, one back end engineer, and four front end engineers
- Improved the accuracy of tracking police use of force by 26% via implementing data deduplication, which reduced data duplication via locality-sensitive hashing.
- Constructed and implemented key features: a new form for reporting police use of force incidents | implemented tag system for cataloging incidents reported on Twitter and Reddit | categorized tags based on the National Institute of Justice's Use of Force Continuum
- Successfully constructed MVP on-time for stakeholder, Welton Chang, CTO of Human Rights First
- URL to repos: [DS] https://github.com/Lambda-School-Labs/human-rights-first-ds-f | [FE] https://github.com/Lambda-School-Labs/human-rights-first-fe-f

Contact

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Skills

COMPUTER PROGRAMMING
Python
Jupyter
Linux
Git
SQL
Scala

DATA ENGINEERING
RDS: PostgreSQL | SQLAlchemy
NoSQL: MongoDB
Frameworks: Flask | FastAPI
Docker
Airflow

MACHINE LEARNING
Regression
Neural Networks
Natural Language Processing
Statistics

COMPUTER SCIENCE
Data Structures
Algorithms

DATA VISUALIZATIONS
Google Analytics
Tableau
Seaborn
Matplotlib
Plotly

Education

Lambda School — Aug. 2020
Data Science

Florida Atlantic University — May 2010
BBA Business Management

Prior Work Experience

Real Estate Analyst — 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