CHASE GOLDFELD

ENGINEER

Experience

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

- Codebase contributor and liaison between stakeholders and product developers to ensure timely product releases and MVP based on stakeholder needs
- Implemented data deduplication for Human Rights First via:
  - Stream processing by cross-referencing time stamps and locations
  - Batch processing by locality-sensitive hashing
  - Resulting in mitigated data expenses and an improved model accuracy by 26%
- 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
- 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

- Codebase contributor and team lead that guided cross-functional teams to engineer products and features based on stakeholders' requirements
- 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
- 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

Projects

Human Rights First — Jan. 2021 to Current

Human Rights First is an independent advocacy and action organization that challenges America to live up to its ideals. Engineered their data pipeline and 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 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.
- 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

Asylum — Sept. 2020 to Nov. 2020

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 a Data Science Project Lead for a cross-functional team consisting of two data scientists, one back end engineer, and four front end engineers
- 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 — July 2020 to Aug. 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
- 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

Contact

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Education

Lambda School · Data Science — Aug. 2020

Lambda School is a 9+ month computer science & software engineering program that provides an immersive hands-on curriculum focused on Data Science.

- Served as a data scientist on a ready to deploy project, working alongside UX designers, web developers, and mobile developers to bring the project to fruition
- Completed a deep dive into Data Engineering, working with databases, productization, and big data
- Developed a solid foundation of descriptive and predictive statistics, including: linear algebra, linear regression, hypothesis testing, storytelling with data, and more
- Gained hands-on experience engaging with machine learning, being able to understand unsupervised learning, natural language, and neural networks

Skills

PROBLEM SOLVING WITH COMPUTER SCIENCE

Data Structures
Algorithms
Dynamic Programming

DATA ENGINEERING

SQL: MySQL | PostgreSQL | SQLAlchemy
NoSQL: MongoDB
Frameworks: FastAPI | Flask | Heroku
Containerization with Docker
Data Modeling
Python Libraries: Pandas | Numpy
Redis

COMPUTER PROGRAMMING

Languages: Python | SQL | Scala
Jupyter
OS: Linux | Mac | Windows
Git
Bash

CLOUD COMPUTING WITH AWS

ML Deployment with Elastic Beanstalk
Storage: S3 | RDS
EC2
Elasticsearch

MACHINE LEARNING

Regression
Neural Networks
Natural Language Processing
Statistics
Tensorflow