

SAMUEL FISHER

DATA SCIENTIST



I can offer the open mindedness, attentive listening, and technical skills needed to help you make the translation from a concept to a machine learning product.

P: 706-255-5106

W: fishermetrical.com

E: sam@fishermetrical.com

EDUCATION

Oberlin Conservatory

Sept. 2010 - May 2014

Bachelor of Music

Music Technology

Harvard Extension School

Jan. 2018 - Current

Post-Baccalaureate Student,

Computer Science & Math

Transitioning to Data Science

Master's Program in 2021

Springboard

Jan. 2018 - June 2018

Fellow, Data Science Career

Track

SKILLS

PROGRAMMING & TOOLS

Python JavaScript SQL

MongoDB UNIX Command Line

Git & GitHub Version Control

AWS & Google Cloud Flask

Docker Pandas Numpy Scipy

RESTful API Design Scikit-Learn

Microservice Architectures

DATA SCIENCE

Natural Language Processing

Clustering Feature Engineering

Data Visualization Classification

Time Series Modeling Regression

WORK EXPERIENCE

Fisher Metrical LLC

Self-Employed Data Science Consultant

Little Rock, AR | Jan. 2020 - Current

- Helping a data analyst for a telecommunications company implement sentiment classification of reviews using the BERT deep neural network architecture.
- Created a topic modeling system for a social impact investing platform, Impending Bloom, that surfaces important themes in political tweets and shows the variation in political attention amongst politicians and the companies who's employees donate to their campaigns.
- Modified a recommendation algorithm for a social networking app, Panion, to reduce average page load time from 5 seconds to <1 second with minimal cost to optimality.
- Developed a bayesian network model for a genomics company that predicts the probability that a patient has specific types of cancer given information about DNA found in a blood sample.
- Created a combinatorial optimization algorithm for a genomics company that selects which blood samples to sequence in order to maximize information gain to machine learning models downstream.
- Created a back-end system for an e-commerce company managing customer messaging, funnel analytics, and generating+distributing product codes.

Apothewell

Co-founder

Little Rock, AR | Nov. 2019 - May 2020

- Developed go-to-market and product development strategy for early stage healthcare startup
- Conducted quantitative + qualitative market research using secondary data and customer interviews.
- Created technical specifications for back-end application, iOS app, and integrated hardware.

Bond.AI

Data Scientist

Little Rock, AR | Aug. 2019 - Sept. 2019

- Early stage software design on a personal finance recommendation system.
- Designed a system of metrics to capture individual consumer financial health from bank account transaction data based on existing academic research.
- Designed a method for recommending healthy financial ratios tailored to the individual consumer's socio-economic context.

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SKILLS

MATHEMATICS

Discrete Mathematics Calculus

Probability Theory Linear Algebra

Discrete Mathematics

Numerical Optimization Algorithms

COMMUNICATION & LEADERSHIP

Technical Writing Teaching

Public Speaking

WORK EXPERIENCE

Vocool

Software Engineer

Little Rock, AR | June 2018 - July 2019

- Architected, programmed, and shipped a back-end statistical anomaly detection service using serverless functions on Amazon Web Services, Python, BOTO3, and Scikit-Learn to a client in the retail sector. Created comprehensive unit and integration tests.
- Architected, programmed and shipped Alexa & Google Assistant voice interfaces for an IoT appliance using Node.js, Typescript, and Amazon Web Services. Created a fully functional design and prototype of the appliance's API to unblock voice development. The device was successfully demoed at a major appliance manufacturing show.
- * Architected, programmed, and shipped an Alexa-based conference room booking service for the Little Rock Technology Park using Node.js and Amazon Web Services.

Brain.fm

Head of Music

Chicago, IL | Feb. 2017 - Sept. 2017

- Co-designed online auditory tests and mined web application database to study music preferences.
- Co-developed a music QA pipeline consisting of internal review and objective key performance indicators for music quality based on user listening behavior.
- Stabilized music team output from inconsistent productivity to a bi-weekly release of ~4 hours of music per composer.

Seller Labs

App Support Specialist

Athens, GA | July 2016 - Jan. 2017

- Invented and implemented a software for automatic prioritization of customer feature requests to support decision making using Python, SQL, and custom integrations with a Salesforce product.
- Provided customer support to amazon merchants via phone and email, serving as an expert advisor on all Seller Labs software products.