

EDWARD ANG

DATA SCIENTIST AND CONSULTANT

SUMMARY

Versatile Python developer with 4+ years of working experience and an end-to-end understanding of advanced analytics. Highly skilled in developing data science products from ideation to production that solve business problems, understanding common business goals and objectives, and communicating technical results to non-technical stakeholders. Has worked with data from many industries and clients, coordinated cross-functionally with a multitude of teams, and has a previous track record of success through adversity.

CONTACT

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📍 San Francisco, CA

EDUCATION

Carnegie Mellon University
B.S. Statistics and Machine Learning 2018
Minor: Business Administration

SKILLS

PROGRAMMING: Python, SQL, R, Git, HTML, CSS, JavaScript

MLOPS: AWS, Kubeflow, Kubernetes, Docker, Azure, Arrikto

DATABASE: MySQL, Postgres, Dremio

PROJECT MANAGEMENT: Jira, Confluence, Scaled Agile Framework (SAFe), Scrum

AWARDS & CERTIFICATIONS

Business Value Rockstar Award
Aug. 2019

Recipients are the top 9 highest performing consultants in IBM's Global Business Services Consulting program consisting of 1500+ young professionals.

PROJECTS

BlogMaps
Nov. 2022 to Dec. 2022

Created a Flask app that allows users to record experiences with location to share in a public feed. Used AWS Elastic Beanstalk for server configuration and hosting, AWS RDS for storing data, AWS Lambda for ad-hoc scripts, and Google Maps API for geocoding capabilities.

Divvy Bikes
Oct. 2018 to Nov. 2018

Analyzed bike station data in Chicago, created visualizations, and built a regression model to predict bike trip duration for individual riders as part of an IBM data science hackathon.

Space Jump
Nov. 2015 to Dec. 2015

Developed a desktop game similar to Doodle Jump using Python's Tkinter library as a capstone project for Carnegie Mellon University's world-renowned Fundamentals of Programming and Computer Science course. Utilized basic A.I. concepts to program A.I. to compete against player in multiplayer modes.

EMPLOYMENT

IBM

San Francisco, CA

Managing Consultant and Data Scientist · Apr. 2022 to Current

- Led a manufacturing proof of concept for Kemet to solve their machine downtime, maintenance resource allocation, and throughput problems. Discovered with anomaly detection that 53% of machine issues were not attended to immediately, which translated to \$60k+ in revenue lost per day for the plant in study.

Senior Consultant and Data Scientist · Dec. 2019 to Apr. 2022

- Automated the retraining process of deep learning pipelines in production, detected data drift, designed time series tables, and created dashboards to visualize performance metrics as a machine learning engineer within Shell's Power Digital Core (New Energies) group. Created a time series regression model to forecast price of renewable energies, which reduced overall MAPE by 0.6%.

- Led an internal reorg and infrastructure migration as a technical program manager at Apple. Worked cross-functionally with 20+ teams including various project managers, software engineers, database engineers, and QA engineers to decide strategy, define KPIs, execute schedule, and communicate status to leadership. Created centralized documents and pipelines for tracking progress, which ensured Phase 1 completion across all project tracks.

Cognitive Consultant (Jr. Data Scientist) · Oct. 2018 to Dec. 2019

- Developed an OCR invoice automation system as the lead Python developer to process, score, and verify multilingual pdf invoices with 85% accuracy for DOW Chemical, a leading chemical manufacturing company. The success of this project on a tight deadline solidified a \$15 million renewal contract. Coordinated cross-functionally with external clients, accounts payable team, front-end developers, and database owners to get requirements for new production.

- Developed an Sklearn random forest model to predict and distinguish oil well failures with a 75% accuracy rate (2% false positive rate) for Weatherford, a leading oil and gas company. The model helped save capital and promote safety by allowing management to identify and repair oil wells before they cause damage.

The Goodyear Tire & Rubber Company
Akron, OH

Data Science Intern · May 2017 to Aug. 2017

- Developed an algorithm to predict when tire changes are needed on commercial trucks with 92% precision, automating the tire inspection process.
- Developed an algorithm to pair commercial trucks with trailers, given GPS coordinates in real time, with 82% accuracy.
- Identified features that caused irregular tread wear on NASCAR and commercial truck tires, giving insight to the strengths and weaknesses of each tire model.

Sanho Corporation (E-commerce Startup)
Fremont, CA

Data Analytics Intern · May 2015 to July 2015

- Analyzed advertisement performance, web traffic, and sales data with Excel/Google Analytics.
- Helped close \$5000+ in additional sales by advising management to double down on most popular ads - identified by analysis.
- Sold products at trade shows, performed tech support, and provided customer service.
- Maintained startup's new website.

Godzilla Media

Remote

Data Driven Affiliate Marketer · Jan. 2022 to Aug. 2022

- Optimized ad performance on Facebook using data driven decision making for clients in verticals such as automotive, healthcare, and insurance.
- Brought in 6-figures in revenue from lead generation.