

Joshua A. Zastrow

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PROFESSIONAL EXPERIENCE

Acclimate Consulting – Strategy and AI Consulting

May 2018–Present

Co-founder, Machine Learning Engineer

San Francisco, CA

Machine learning and data pipeline development, data processing and visualization in a Python ecosystem.

Engage with clients to identify business opportunities from data processing challenges.

Perform data ingestion and processing from SQL Server databases and web scrapers.

Feature engineering and exploratory data analysis on unique datasets using Python and Pandas.

Model selection, training and visualization in Jupyter Notebooks using Keras, PyTorch and Scikit-Learn.

Model deployment and pipeline generation using Python and Airflow for batch processing.

Freelance Machine Learning Engineer

July 2016 – August 2018

Machine Learning Engineer

Boston, MA

Provided machine learning and data processing support for early stage startups and engineering groups.

Designed and trained Convolutional Neural Networks for image recognition and object detection.

Performed experimentation on embedding models, sentiment analysis and model visualization tools.

Built data pipelines to support model training from big data image processing for autonomous vehicles.

Horst Engineering – Aerospace Manufacturing

May 2014–July 2018

Business Intelligence Engineer

Lynn, MA

Wrangled, processed and transformed disparate organization data to establish a central data warehouse.

Built a large profile of internal analytics using SQL, SSRS, Python and related data science packages.

Deployed operational intelligence dashboards to support supply chain operations and production.

Built custom business workflow management pipelines to automate business processes.

Designed ETL pipelines to backfill data tables with statistics derived from production activity.

QD Vision – LED Display Technology

July 2013–December 2013

Display Engineer Co-op

Lexington, MA

Established complete automation of data processing and report generation on internal system metrics.

Tested and calibrated display measurement systems using Gage R&R and correlation techniques.

Assisted in monitor display teardowns to support product integration and testing.

Taris Biomedical – Biomedical Devices

July 2012–December 2012

Product Development Co-op

Lexington, MA

Created CAD models and technical drawings of manufacturing fixtures, device components and tooling.

Prototyped fixtures for testing and manufacturing, responsible for in-house and out-sourced fabrication.

GE Energy – Industrial Solutions

May 2011–December 2011

Project Engineer Co-op

Burlington, MA

Managed shipments, schedules, suppliers, distributors for electrical distribution projects

Managed account billing, bill of materials and ad hoc requirements to support off-site projects.

EDUCATION

Northeastern University

May 2014

Bachelor of Science in Mechanical Engineering, GPA: 3.5

Boston, MA

Continued Education

Neural Networks, *Deeplearning.ai* - CNN for Vision Recognition, *CS231n* - Machine Learning, *Andrew Ng Coursera*

Deep Learning Part 2, *Fast AI* - Network Analysis, *Coursera*

SKILLS

Python, *general purpose programming* - Matplotlib/Plot.ly, *data visualization* - SSRS, *report and dashboard development*

PyTorch & Keras, *machine learning* - Pandas / SQL, *data mining & analysis* - AWS Lambda, *server-less REST API*

PROJECTS

AI Scheduling Engine, 2018 - Object Detection on PASCAL 2018 - Word-Embeddings Model in PyTorch 2018

Housing Regression Model 2017 - Data Generator for Comma.AI 2017 - Custom-built Image Recognition Model 2016

Machine Monitor Classifier 2016 - Layer Activations in Deep Learning 2016 - Vector Space Sentiment Analysis Model 2016

ACTIVITIES

Ambassador, VC Tokyo 2018 - Volunteer, Venture Cafe 2017 - Instructor, Roxbury Innovation Lab 2016

Magna Cum Laude 2014 - Capstone Design – 1st Place 2014 - Engineering for Greater Good – 2nd Place 2012