

# Joshua A. Zastrow

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## PROFESSIONAL EXPERIENCE

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### **Zeus Living - Property Rentals Technology Company**

*January 2019–Present*

*Data Scientist*

*San Francisco, CA*

Built and managed a micro-service based machine learning platform and a data science Python library.

Designed, built and deployed automated forecasting models for consumer demand and revenue.

Deployed image recognition systems to categorize property rooms and rank listings by quality.

Developed a location-desirability model and map visualization platform for geospatial data exploration.

### **Acclimate - Freelance Machine Learning Engineer**

*July 2016 – December 2018*

*Machine Learning Engineer*

*Boston, MA*

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

Developed text mining pipelines for processing scraped web data, delivered proof-of-concept ML models.

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

### **Horst Engineering – Aerospace Manufacturing**

*May 2014–July 2018*

*Business Intelligence Engineer*

*Lynn, MA*

Leveraged statistical analysis techniques to drive dramatic improvements on pricing and lead time estimates.

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

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

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

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 tear-downs 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.

## **SKILLS**

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*Programming:* Python, SQL - *Production:* Kubernetes, Airflow, Docker, Git - *Libraries:* Pandas, PyTorch, Scikit-learn

*Cloud Computing:* AWS, GCP - *Visualization:* Matplotlib, Plotly, Seaborn - *Databases:* Snowflake, PostGres, SQL Server

## **EDUCATION**

### **Northeastern University**

*Boston, MA*

Bachelor of Science in Mechanical Engineering, GPA: 3.5

### **Continued Education**

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

Deep Learning Part 2, *Fast AI* - Applied Social Network Analysis, *Coursera* - Rest APIs with Flask and Python, *Udemy*

Convolutional NN, *deeplearning.ai* - Elegant Automation Frameworks, *Udemy* - Structuring ML Projects, *deeplearning.ai*

## **PROJECTS**

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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**

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

Magna Cum Laude *2014* - Capstone Design – 1<sup>st</sup> Place *2014* - Engineering for Greater Good – 2<sup>nd</sup> Place *2012*