
Daniel Hasegan

ML Software Engineer

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SKILLS

Proficient in **Python, Javascript, Scala**. I wrote production code in Java, C++, Golang, Lua.

Machine Learning tools: TensorFlow, TensorFlow 2, Keras, Numpy, Pandas, Matlab

Google Cloud Services: AI Platform, Data pipelines using Google Storage, DataPrep, DataClinic, Functions, PubSub, Scheduler

Front-end experience: TensorFlow-JS, WebDNN, Typescript, React, Redux.

Architected distributed systems using RPC servers, thrift, SQL and key-value databases, caches, messaging queues. Worked with MapReduce jobs, Hadoop, Spark.

EXPERIENCE

Braid.Health, San Francisco, *Lead ML Software Engineer*

10/2018 - PRESENT

- As the first employee after the company founders, I led the Data and AI platform, while also maintaining and implementing parts of the Front-End. Architected and productionized multiple X-Ray disease detection models to assist clinics and radiology departments for better and faster diagnostics. Managed the data pipeline to maintain public and private datasources, process x-ray images, explore architectures, train using hyperparameter search, deploy and test the models in production.
- Submitted Paper for review at RSNA 2020 (Dec) with title: "*AI prediction of normal radiographs with highest confidence*"

Twitter, San Francisco - *Staff ML Software Engineer*

10/2014 - 10/2018

- Main systems engineer for Content Understanding and Applied Deep Learning team, being the forefront NLP team at Twitter. I maintained and improved the Named Entity Recognition (NER) models and systems which was the first TensorFlow model at Twitter. NER is currently used in Trends, Emails, User Interests and more. Actively involved in ML platform tooling at Twitter.
- As part of the Twitter Cortex team, I implemented short clip generation from Periscope video streams, branded as Periscope Highlights. I worked on servicing and training pipelines for multiple Machine Learning models for Abusive content, image/video classification, and Not Safe For Ads users/tweets.

Twitter, San Francisco - *Software Engineer Intern*

05/2013 - 09/2013

- Developed a user recommendation (WhoToFollow) web feature for the Twitter website, launched as an AB test experiment. Learned Web development from scratch and delivered high impact code using complex animations.

Jacobs University, Bremen, Germany - *Teaching Assistant*

01/2014 - 05/2014

- Teaching assistant for the “Computability and Complexity” course for which I held seminars, graded homework and exams.

KWARC, Bremen, Germany - *Student Assistant*

06/2012 - 05/2013

- Created a Crawler for web mining of Math Markup, integrating with the MathWebSearch knowledge graph. Further integrated math web indices to search typed variable queries as presented in my college final thesis: “Sorted Unification in MathWebSearch”. Worked with Prof. Michael Kohlhase

EDUCATION

Jacobs University Bremen, Germany - *Bachelor of Science*

09/2011 - 03/2014

Bachelor of Science Degree in Computer Science. President’s List.

Final thesis: “Sorted Unification in MathWebSearch” with Prof. Michael Kohlhase.

GPA: 1.28 (equivalent **US GPA 3.8**).

Carnegie Mellon University, Pittsburgh - *Exchange semester*

08/2013 - 12/2013

Exchange semester for Fall 2013. I took specialized courses in Artificial Intelligence, Graphics, Cloud Computing, Web Applications and Competitive Programming.

Notable Online courses:

- March 2020: Computational Neuroscience - University of Washington (Coursera)

AWARDS

2012	Participated in ACM NWERC competition in Delft, Netherlands.
2009	Bronze medal at the Romanian National Olympiad in Computer Science.
2010, 2009, 2008	Achieved five 1st places and other medals at different contests in Romania Olympiad Regionals, Centers of Excellence contest.