

Mathias Darr
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LANGUAGES:

- Python
- C++
- Java
- Scala
- Bash
- Matlab

TOOLS / LIBRARIES

- Numpy, pandas, sklearn
- PostgreSQL & MySQL
- MongoDB & DynamoDB
- Spark
- Machine learning
- Keras & Tensorflow
- Flask & Django

SYSTEMS

- Ubuntu
- AWS EC2 & Lambda
- Git
- Docker

EDUCATION

Galvanize Data Science Immersive | Seattle WA | September – December 2018
BS Applied Mathematics | Western Washington University | Bellingham WA | 2008-2014

EXPERIENCE

Data Science Fellow

Data Science | Galvanize Seattle WA

September - December 2018

- 13-week full-time intensive training focused on learning modern theoretical and applied data science practices
- Practical skill building via individual work, pair programming, group case studies, and a final capstone project
- Capstone project: automatic guitar tab generator using the libraries Librosa and mir_eval

Software Developer

EigenVector Research, Seattle WA

February 2016 - April 2017

- Worked with Matlab and Java developing data analysis software primarily intended for use by chemical engineers.
- Worked with file importers for a variety of spectral data formats
- used supervised, and unsupervised regression, & classification models
- Used the debugger to identify problems with graphical operations & numerical routines

QA Analyst

XBOX via HCL of America, Redmond WA, QA Analyst

January 2015 - January 2016

- QA experience testing Microsoft affiliated websites
- Executed test plans and documented results, ensuring correct functionality of all areas of the website.

Software Intern

University of Washington Radiology Image research Lab

July - September 2013

- Wrote a graphical user interface in Matlab to visualize mammograms
- Converted scripts for reading DICOM files from Matlab to Python

PROJECTS

Style Transfer Flask Application

- Deployed a Flask application to Amazon's Elastic Beanstalk
 - Allows a user to upload images to perform style transfer and email the output image.
 - Technologies Used: EC2, Boto3, Flask
- <https://github.com/MathiasDarr/KerasStyleTransfer>

Guitar Tab Generator:

- My Galvanize capstone project comprised of generating guitar tablature from audio files of a single guitar being played.
 - Experimented with several convolutional neural network architectures.
 - Trained the neural networks on AWS EC2.
 - Technologies Used: EC2, Keras, Flask
- https://github.com/MathiasDarr/Tab_Generator