

Matthew W. Lowery

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PROFESSIONAL EXPERIENCE

MUSEEXDATA, INC. FULL STACK DEVELOPER

Sept 2020 — Present | Brooklyn, NY

- Curating a database of museum exhibitions and contact listings from over 1,200 museum and gallery websites by combining web scraping technologies, machine learning, and the multiple APIs to serve as a creative solution for gathering the data.
- Deploying a back-end Rest API using Django and building a front-end web-app with React to present the data per a subscription based service as *MuseExData.com*.

VASSAR COLLEGE COMPUTER SCIENCE

TEACHER'S ASSISTANT

Sep 2019 — May 2020 | Poughkeepsie, NY

- Served as a Teacher's Assistant for department requirement CS 145: Foundations of Computer Science.
- Assisted students with labs and assignments and provided guidance on an ongoing basis.
- Held office hours to support and assist student work regarding their work throughout their semester.

EAGLE CONSULTING & DEVELOPMENT, INC.

SOFTWARE ENGINEERING INTERN

June 2018 — Aug 2018 | Boonton, NJ

- Helped to integrate their RF Express™ software for QAD Enterprise Platform with a mobile platform for Android devices.
- Focused on intercepting touch and swipe gestures to provide the user with a streamlined interface for the corresponding QAD transaction.

LEADERSHIP EXTRACURRICULAR

CAPTAIN | STUDENT ATHLETE

VARSITY MEN'S LACROSSE

2016 — 2020 | Vassar College

Named 2020 Scholar All-American Team, 2019 All-American, 2019 Vassar College Athletics' Betty Richey Performer of the Year, 2020 Warrior & New Balance Preseason All-American Team

MENTOR, GOOGLE IGNITE.CS PROGRAM

Jan 2018 — May 2018 | Vassar College

Weekly taught and coached Poughkeepsie High School Students fundamentals of Python (topics: recursion, data structures, libraries, loops, functions etc.)

VOLUNTEER, CHARM CITY YOUTH LACROSSE

2016 — 2018 | Baltimore, MD

Assisted and volunteered as a Lacrosse coach and mentor, instructing to underserved children the fundamentals of the sport, while supporting them through adolescence.

EDUCATION

VASSAR COLLEGE

B.A. WITH HONORS IN COMPUTER SCIENCE

Correlates in Physics and Mathematics

Computer Science GPA: 3.85/4.00 | Overall: 3.77/4.00

2016 — 2020 | Poughkeepsie, NY

COMPUTER SKILLS

SOFTWARE

Proficient:

Python, Java, C, Scheme

Working Knowledge:

x86 Assembly, JavaScript, HTML, SQL

OTHER

Git, Scrapy Framework, Django Rest Framework, Linux and Mac OS X, Google Cloud Platform Services like Google Vision AI, BeautifulSoup, Selenium; Python ML/DL: scikit learn, TensorFlow

RELEVANT COURSEWORK

Computer Science

Data Structures, Algorithms, Computer Organization, Linguistics, Operating Systems, Language Theory, Compilers, Networks

Physics

Quantum Mechanics, Thermodynamics, Modern Physics, Electricity and Magnetism, Classical Mechanics, Stellar Astrophysics

Mathematics

Multivariable Calculus, Linear Algebra, Differential Equations, Operations Research

PROJECTS

GENRE CLASSIFIER

Used lyrical data in a bag-of-words format to train a k-NN classifier in order to predict the genre of different music from 17,495 songs with an accuracy \approx 47%.

DL COMPILER

Wrote a compiler for DL, a simple subset of the C Language, that outputs LLVM intermediate language.

NETWORKS RESEARCH

Used machine learning to consider whether or not using local wifi networks would be a viable measure of connection for a moving vehicle and its occupants. Discerned relevant features from the dataset like frequency bands, wifi types and distance from the network, using unsupervised clustering and dimensionality reduction algorithms in preprocessing.

More:

Word Sense Disambiguation, Twitter Sentiment Analyzer