

Matthew W. Lowery

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EDUCATION

Vassar College, Poughkeepsie, NY Graduated May 2020
B.A. with Honors in Computer Science; Physics and Mathematics Minors

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

PROFESSIONAL EXPERIENCE

Contracted, MuseExData, Inc., Brooklyn, NY Sept 2020 - Present

- 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 Google Vision API to serve as a creative solution for gathering the data.
- Deploying a back-end Rest API with Django and front-end web-app with React to present the data per a subscription based service as *MuseExData.com*.

Teacher's Assistant, Computer Science Department – Vassar College, Poughkeepsie, NY Sept 2019 – May 2020

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

Software Engineering Intern, Eagle Consulting & Development, Inc., Boonton, NJ June 2018 – August 2018

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

LEADERSHIP, ATHLETICS, AND ACTIVITIES

Captain | Student-Athlete, Varsity Men's Lacrosse – Vassar College, Poughkeepsie, NY Aug 2016 – Present

- Named **2020 USILA Scholar All-American, 2019 USILA All-American**, 2020 Inside Lacrosse Preseason All-American, 2019 Vassar College Athletics' Betty Richey Performer of the Year.

Volunteer, Charm City Youth Lacrosse, Bel Air, MD May 2016 - Aug 2016

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

Volunteer, Ignite.cs, Poughkeepsie, NY Sept 2017 – May 2017

- Volunteered and engaged with local Poughkeepsie high school students, teaching them computer science.

Selected Computer Skills

Coding: Python, Java, C, Scheme, x86 Assembly, SQL, LaTeX (TeX)

More: Git, familiar with Linux and Mac OS X, experience with Google Cloud Platform services like Google Vision AI, Django Rest Framework, BeautifulSoup, Scrapy Framework

Selected Coursework / Experience

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

Mathematics: Multivariable Calculus, Linear Algebra, Differential Equations, Operations Research

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

Projects

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

Genre Classifier Used lyrical data in a bag-of-words format to train a k-NN classifier and predict musical genre from 17,495 songs with an accuracy of 47%.

Linux From Scratch Built a functioning Linux OS entirely from source code.

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 and wifi types, distance from the network, etc.