Matthew W. Lowery

443-987-0848 • mlowery@vassar.edu

https://www.linkedin.com/in/matthew-lowery-95a216186/ • https://github.com/mwl10

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, JavaScript, 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, Python ML; TensorFlow, scikit-learn

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.
More	Word Sense Disambiguation Project, Twitter Sentiment Analyzer