

# Matthew W. Lowery

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## EDUCATION

<b>Vassar College</b> , 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

<b>Contracted</b> , <i>MuseExData, Inc.</i> , Brooklyn, NY	Sept 2020 - Present
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- 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*.

<b>Teacher's Assistant</b> , <i>Computer Science Department – Vassar College</i> , Poughkeepsie, NY	Sept 2019 – May 2020
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- 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.

<b>Software Engineering Intern</b> , <i>Eagle Consulting &amp; Development, Inc.</i> , Boonton, NJ	June 2018 – August 2018
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- 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

<b>Captain   Student-Athlete</b> , <i>Varsity Men's Lacrosse – Vassar College</i> , Poughkeepsie, NY	Aug 2016 – Present
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- 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.

<b>Volunteer</b> , <i>Charm City Youth Lacrosse</i> , Bel Air, MD	May 2016 - Aug 2016
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- Assisted and volunteered as a Lacrosse coach and mentor, instructing to underserved children the fundamentals of the sport, while supporting them through adolescence.

<b>Volunteer</b> , <i>Ignite.cs</i> , Poughkeepsie, NY	Sept 2017 – May 2017
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- Volunteered and engaged with local Poughkeepsie high school students, teaching them computer science.

## Selected Computer Skills

<b>Coding:</b>	Python, Java, C, Scheme, x86 Assembly, SQL, LaTex (TeX)
<b>More:</b>	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

<b>Computer Science</b>	Algorithms, Organization, Data Structures, Operating Systems, Language Theory, Compilers, Networks, Linguistics
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<b>Mathematics:</b>	Multivariable Calculus, Linear Algebra, Differential Equations, Operations Research
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<b>Physics:</b>	Quantum Mechanics, Thermodynamics, Modern Physics, Electricity and Magnetism, Classical Mechanics, Stellar Astrophysics
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## Projects

<b>DL Compiler</b>	Coded a compiler for DL, a simple subset of the C Language, that outputs LLVM intermediate language.
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<b>Genre Classifier</b>	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%.
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<b>Linux From Scratch</b>	Built a functioning Linux OS entirely from source code.
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<b>Networks Research</b>	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.
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