

# 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: 3.79/4.00 | Overall GPA: 3.77/4.00

## PROFESSIONAL EXPERIENCE

**Contracted**, *MuseExData, Inc.*, Brooklyn, NY July 2020 - Present  
• Working among a small group of developers to create a database of museum exhibitions from over 1,500 museum and gallery websites.  
• Curating the data and presenting it as a functional, filterable and searchable website for public launch.

**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.  
• 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 June 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 Jan 2017 – May 2017  
• Volunteered and engaged with local Poughkeepsie high school students, teaching them computer science.

## Selected Computer Skills

<b>Operating Systems</b>	Mac OSX, Linux
<b>Languages:</b>	Python, Java, C, Scheme, Assembly
<b>Script Languages:</b>	LATEX (TEX), HTML
<b>Applications:</b>	Vi/Vim, mongoDB, Git, Microsoft Word, Excel, PowerPoint, Apple Pages, Keynote, Numbers

## Selected Coursework / Experience

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

## Projects

<b>DL Compiler</b>	Helped to build a compiler for DL, a simple subset of the C Language, that outputs LLVM intermediate language.
<b>Genre Classifier</b>	Used lyrical data in a bag-of-words format to predict musical genre from 17,495 songs with an accuracy of 47%.
<b>Linux From Scratch</b>	Built a functioning Linux operating system entirely from source code.
<b>Networks Research</b>	Employed a variety of machine learning techniques to make conclusions as to whether using local wifi networks would be a viable measure of connection for a moving vehicle and its occupants.