Matthew W. Lowery

443-987-0848 • mlowery@vassar.edu • 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: 3.79/4.00 | 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^{TM} 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

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

Selected Coursework / Experience

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

Projects

DL Compiler	Helped to build a compiler for DL, a simple subset of the C Language, that outputs LLVM intermediate language.
Genre Classifier	Used lyrical data only in a bag-of-words format to predict musical genre from 17,495 songs with an accuracy of 47%.
Linux From Scratch	Built a functioning Linux operating system entirely from source code.
Networks Research	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.