

MATTHEW J. MARTIN

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EDUCATION

Colby College, Waterville, ME

Bachelor of Arts, May 2018

Majors: Computer Science and Government, *Minor*: Mathematics

Overall GPA: 3.81/4.00

Honors: Dean's List: Fall 2014, Spring 2015, Fall 2015

CS Major GPA: 3.95/4.00

Relevant Coursework: Data Structures and Algorithms, Introduction to Vision and Robotics,

Software Design and Modeling, Data Analysis and Visualization, Parallel and Distributed

Processing, Computer Organization, Interactive Digital Media, Computer Game Design, Linear Algebra

PROGRAMMING EXPERIENCE AND PROJECTS

Research

Enhanced Issue Lifetime Prediction Using Contextual Features, *Lead Researcher*

2016

- I developed a simpler and more accurate method of predicting issue lifetime in software projects than the current state of the art using machine learning optimizations and careful feature selection
- I presented a poster documenting this at the conclusion of my summer research experience at NC State University

Python Development

Advanced Data Visualization, *Co-Developer*

2016

- A fully functional data visualization application that uses computer vision techniques to allow the user to manipulate the data using their hands
- The user is able to pan, scale, and rotate the data simply by moving their hands in front of the screen

Music LED Controller, *Sole Developer*

2015

- Analyzes music played through a Raspberry Pi, displaying a visualization of the frequencies via an LED strip

Web Development

Colby College Computer Science Department Website, *Co-Developer*

2016

- Redesigned and now maintaining the official department website for Colby CS: cs.colby.edu
- Rebuilt the site from the ground up, and it is now accessed by every computer science student at Colby on a daily basis

Personal Site, *Sole Developer*

2016

- The domain matthewmartin.me is consistently updated with recent work, and has detailed descriptions of my projects

Android App Development

Easy Calculator, *Sole Developer*

2015

- A user-friendly calculator for Android devices made with modern design in mind

Easy Flashlight, *Sole Developer*

2014

- An easy to use flashlight for Android devices

Source code for most projects is available on **GitHub** at: github.com/mjmartin23

CODING SKILLS

Skilled in:

- Python
- Java
- HTML/CSS

Experience with:

- C/C++
- Git
- Unix shell

Familiar with:

- Javascript/jQuery
- MySQL, PHP
- Linux, Windows

EMPLOYMENT

Undergraduate Researcher, **North Carolina State University**

May - August 2016

- Work with Dr. Tim Menzies researching hypotheses from industrial partners

Teaching Assistant, **Colby College Computer Science Department**

February 2015 - present

- Assist students with their computer science projects during class and outside of class

Tennis Instructor, **Barnstable Yacht Club**

June 2011 - August 2015

- Teach tennis to students from age 3 to 17 in the summer, organize daily lessons

ACTIVITIES

Member, Colby Hackers

2015 - present

Member, Colby College Class Council

2015 - present

Member, Colby College Men's Tennis

2014 - present