

# MATTHEW J. MARTIN

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## EDUCATION

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**Colby College**, Waterville, ME

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

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

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

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

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

**Bachelor of Arts**, May 2018

**Overall GPA: 3.81/4.00**

**CS Major GPA: 3.95/4.00**

## PROGRAMMING EXPERIENCE AND PROJECTS

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### 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 object tracking 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](http://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](http://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](https://github.com/mjmartin23)

## CODING SKILLS

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### Skilled in:

- Python
- Java
- HTML/CSS
- C/C++

### Experience with:

- Git
- Matlab
- UML
- Unix shell

### Familiar with:

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

## EMPLOYMENT

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*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

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*Member*, Colby Hackers

**2015 - present**

*Member*, Colby College Class Council

**2015 - present**

*Member*, Colby College Men's Tennis

**2014 - present**