

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: 3.82/4.00

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

CS Major GPA: 3.95/4.00

Relevant Coursework: Robotics, Object-Oriented Systems, Introduction to Vision and Robotics, Data Structures and Algorithms, Software Design and Modelling, Data Analysis and Visualization, Parallel and Distributed Processing, Computer Organization, 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 co-authored a paper documenting this which is currently under review at Mining Software Repositories '17

Computer Vision and Robotics

Augmented Reality Chess, *Sole Developer*

2017

- An AR chess game written in C++ that allows two users to play the game by physically selecting and moving virtual pieces while the entire board and pieces are projected digitally on to a video stream

Coin Counter, *Co-Developer*

2016

- A Matlab program that takes in an image of several small objects (including coins) on a tabletop, segments and classifies each object in the scene, and outputs the total amount of money present

Line Following Robot, *Co-Developer*

2016

- A robot made to accomplish a few tasks involving line following, implemented in Python using a PID controller

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

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

CODING SKILLS

Skilled in:

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

Experience with:

- Git
- Matlab
- UML
- 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