

# Benjamin A. Montgomery

6 Brydon Way, Westbrook, Maine 04092

☎ (207) 776-4980 | ✉ ben\_mon@outlook.com | 🌐 Nyctanthous

## Education

### University of Southern Maine

Portland, Maine

B.S. IN COMPUTER SCIENCE, MINOR IN PHYSICS

Fall 2014 - Fall 2018

- COS 485: Design and Analysis of Algorithms
- COS 475: Machine Learning
- COS 460: Computer Networks
- COS 457: Database Systems
- COS 450: Operating Systems
- COS 420: Object-Oriented Design
- COS 360: Programming Languages
- COS 350: Systems Programming
- MAT 492: Graph Theory and Combinatorics
- PHY 410: Independent Study: Magnetic Torsion Pendulum

## Skills

**Programming** Primary: C, Java, Python,  $\LaTeX$

Secondary: C#, C++, VB.Net, Markdown, PostgreSQL, ML, Bash

**Tools** Eclipse, MonoDevelop, PyCharm, Atom, VS Code, Jupyter, Git

## Experience

### University of Southern Maine

Portland, Maine

TUTOR

September 2018 – December 2018

- Was a regularly scheduled tutor for computer science courses through Data Structures.

### University of Southern Maine

Portland, Maine

TEACHING ASSISTANT

January 2017 - May 2017

- Wrote and graded quizzes, tests, and class exercises for second-year introductory physics class under Dr. Julie Ziffer

### University of Southern Maine

Portland, Maine

DEVELOPER

April 2016 – May 2017

- Lead developer in NASA-sponsored project devoted to simulating light waves reflected by rotating objects in space.
- Focus was given to writing code such that that new or learning students would be able to extend program functionality.
- Primarily written using C and C++ using Unity and Unreal Engine, respectively.
- Work was presented at multiple conferences with verbal and written presentations.

### University of Southern Maine

Portland, Maine

RESEARCH ASSISTANT

April 2016 – June 2018

- Developed a Python-based machine vision project pipeline designed to dynamically analyze Brownian motion in order to find Boltzmann's constant with high precision.
- Developed software to calculate phase corrections for asteroids found in the Sloan Digital Sky Survey.

## Honors, Honor Societies, and Awards

2018 **Phi Kappa Phi Membership**

USM

2016 **Michael E. Dubyak Scholarship**

USM

2014-2018 **Dean's List, Spring and Fall**

USM

2014-2018 **Dirigo Scholar Award**

USM

## Extracurricular Activity

### labjack-controller

LEAD DEVELOPER

Summer 2018

Open-source thin API for streaming data from Labjack T4 and T7 DAQs.