

Benjamin Murphy

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Education

Brown University, Providence, RI

Class of 2018

Bachelor of Science in Computer Science and Applied Mathematics

Courses taken include *Accelerated Introduction to Computer Science*, *Honors Linear Algebra*, *Introduction to Software Engineering*, and *Introduction to Probability and Computing*.

GPA: 3.66 out of 4.0

Homeschooling, West Paris, ME

Graduated Spring 2013

Software Development Experience

MongoDB, Inc. – *Software Development Intern*

May 2015 to August 2015

Bootstrap – *Undergraduate Assistant*

December 2014 to January 2015

Utilized Scribble, Racket, and Pyret to update curriculum for the Bootstrap project, available at bootstrapworld.org.

4370, Inc. – *Co-Founder and Developer*

March 2013 to September 2013

Founded an award-winning technology startup as part of a five person team. I worked closely with a design team to create a modern mobile application.

Appy LLC. – *Development Intern*

May 2012 to June 2013

Developed high quality mobile applications for the iOS platform using Objective-C.

Leadership Experience

The Wheeler School – *Aerie Instructor*

November 2014 to Present

Teach classes on Python programming and advanced mathematics to students ranging in age from eleven to sixteen. Also coach the FIRST Tech Challenge robotics team.

Art of Problem Solving – *Grader and Class Assistant*

July 2014 to Present

Assist with classes such as Algebra 2, Introduction to Geometry, and Prealgebra every week. I grade homework sets for classes such as Counting and Probability and Python Programming.

Western Maine CoderDojo – *Founder*

October 2013 to April 2014

Founded a CoderDojo for the Western Maine Homeschoolers Association. Taught programming, math, and science to 10 to 20 students aged 7 to 16 on a weekly basis.

Research

Dye-Sensitized Solar Cells: A Method to Synthesize TiO₂ Thin Films, and Analysis of Anthocyanin and Betalain as Molecular Sensitizers

Conducted at the University of Maine at Farmington with Dr. David Heroux.

Skills and Interests

Technical: Objective-C, Python, HTML/CSS, JavaScript, Java, LaTeX, Matlab, Adobe Illustrator, Google App Engine, MongoDB, MySQL, Github Pages, Spark, Flask.

Interests: Photography, ultimate frisbee, online gaming, politics, journalism, education.