

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 Calculus*, and *Introduction to Human Development and Education*.

Homeschooling, West Paris, ME

Graduated Spring 2013

Software Development Experience

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.

Learning Opportunities for Our Kids (LOOK) – *Teacher and Class Assistant*

Summer '09-'14

Taught classes focusing on engineering, computer programming, and critical thinking skills, with titles such as Lego Robotics, Invention Studio, and Scratch Programming.

Oxford Hills High School Math Team – *Captain*

October 2009 to June 2014

5th ranked student in Maine in the 2013 - 2014 season of the Maine Association of Math League.

5 year member of the Maine All-Star Team at the American Regions Math League.

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: Programming language skills include Objective-C, Python, HTML/CSS, JavaScript, LaTeX; experience in graphic design using Adobe Illustrator and Photoshop; experience with technologies such as Google App Engine, Github.io, and Bootstrap.

Interests: Photography, ultimate frisbee, competitive online gaming, politics, journalism, teaching math and science.