

# JOHN M. FLAHERTY

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## EDUCATION

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**Boston College – School of Arts and Sciences**

*Bachelor's Degree in Computer Science with Minor in Philosophy*

Chestnut Hill, MA

May 2017

**Boston Latin School – High School**

*Rigorous College Preparatory Curriculum*

Boston, MA

June 2013

## TECHNICAL SKILLS

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- Knowledge of Data Structures and Algorithms (Proficient in Java)
- Python TKinter
- Processing JSON
- Android Programming
- Web scraping/API consumption
- Windows Powershell/Command Prompt
- RESTful API consumption
- Full-stack web development (HTML, CSS, PHP, MySQL, JavaScript, Bootstrap, AngularJS, ASP.NET MVC)
- Ruby on Rails web development
- Jenkins CI
- C/C++
- C#/.NET
- MIPS Assembly Language
- Verilog/Xilinx ISE

## PROFESSIONAL EXPERIENCE

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**FlahCode**

June 2016 - Present

*Freelance Software Engineer*

Greater Boston Area, MA

First I took a web development course at Boston College. Some time later, I put my personal website online at <http://JFlah.io>. Then my first customer asked me to build her a website for her yoga teaching career (it was my mom). I have decided to open up my free time to be of service to those who need a software developer to turn their ideas into a reality.

See my freelance engineering profile at <https://www.freelancer.com/hireme/JFlah>

**KAYAK**

May 2016 – August 2016

*Software Engineer Intern - Android*

Cambridge, MA

I worked as a full-time engineer on the KAYAK Android team which consisted of less than a dozen people. I had the pleasure of extending my knowledgebase of the Android framework at an accelerated pace with this very intelligent and effective group of engineers at an extremely competitive company. As the only Android intern, I was able to use useful libraries like RxJava and Retrofit2 to perform advanced Asynchronous JSON retrieval and parsing using Observables. I redesigned the KAYAK Android app's Settings UI, added a new Notifications vertical, and provided some of the vertical's backend interaction with KAYAK databases relating to user subscriptions to push notifications. I also made other small bug fixes within the app. All of this can be seen as of release 22.

**Boston College IT Services**

February 2016 – December 2016

*Student Programmer*

Greater Boston Area, MA

I joined Boston College as a student programmer with BCITS, or Information Technology Services. This is a group of software engineers who work for the University that have come together to work in

BC's own "dev shop" to build the EagleApps system. EagleApps is a spin-off of the Kuali education tech product meant to streamline technologies at schools across the country. It is a 10-year long project all together and BC is now leading the charge.

As a student programmer, I will be working in Java with the various databases and features of the EagleApps project. EagleApps will bring together and streamline things like class registration and degree audits for students as well as content management and course additions/descriptions for professors. I was able to write code for a feature that produces a PDF transcript for a student; this involved testing using a large "mock data loader" framework.

### **OpenPage, inc.**

November 2015 – July 2016

*Co-Founder, Lead Backend Developer/Architect*

Boston, MA

OpenPage, inc. is an online application and service that will provide a large database of digital textbooks bought directly from publishers that can be accessed by any student for a monthly membership fee that will be highly preferred to the usual price paid in a traditional university bookstore. We reduce costs by assuming risk on behalf of our partners and customers. We offer a competitive option to publishers by guaranteeing them large purchase quantities - similar to those of a university - but privately, thus circumventing time-consuming bureaucratic processes that universities have in place when purchasing textbooks. In-turn, our subscribers get highly competitive pricing. I am taking part in a complex backend system to streamline communication between the website and its databases for things such as waitlists, member databases, and e-book databases. I am also assuring correct communication between the OpenPage web app and 3<sup>rd</sup> party reader software and more. The startup later pivoted to an idea called RobinSublet which was meant to act as a Craigslist-esque web application for student-specific sublets in college towns. I worked on the back end and aided in front end design for this project.

### **Revenue Solutions, Inc.**

June – August 2015

*Software Engineer Intern*

Greater Sacramento Area, CA

I interned as a software engineer for a leader in tax efficiency software for state government agencies for the summer. I was part of a team that handled their main product, RPE, and specifically its tech debt. My specific job involved migrating an outdated ASP.NET Web Forms application to a more efficient and updated ASP.NET MVC as part of a general modernization of the company's tools and programs. I migrated a continuous-integration portal to be used by other developers in order to request builds from RSI's Jenkins CI server, thereby saving many developer man-hours. This involved utilizing a myriad of advanced AngularJS features and a deep understanding of ASP.NET MVC.

### **Boston College**

2014 – February 2016

*Computer Science Administrative Assistant*

Boston, MA

I assist in general office duties such as student roster assurance, labeling, student service for the small but very elite Computer Science program at Boston College. I am able to kindle and maintain close relationships with professors and other students. Being at the hub of BC tech also allows me to stay at the forefront of any new information involving research opportunities, hackathons, and the like that are offered by the department.

### **Courageous Sailing**

2010 – 2015

*Instructor/Instructor Trainer*

Charlestown, MA

Courageous Sailing is a non-profit sailing organization dedicated since the 1980's to providing free sailing lessons to the inner-city children of Boston. I spent many years as part of the program, and then progressed through their racing program and became an Instructor-in-Training, and eventually an Instructor. I have experience interacting with and teaching children and adults of all ages how to sail in a

quick and efficient manner; sometimes as quickly as 24 total hours. I have taught general skills all the way up to advanced racing techniques as well as training Instructors. I had the pleasure of having a major part to play in getting a \$100,000 grant awarded to Courageous Sailing in 2015 from a local insurance company that awards grants to non-profits. Courageous provided me the means to learn communication, teaching, and managing large groups of people.

### **The Choir of Men and Boys at the Parish of All Saints**

2005 – 2008

*Head Chorister/Chorister*

Dorchester, MA

The choir of men and boys is a group of professional singers who perform around Massachusetts year-round and sing at the weekly Sunday Mass at the Parish of All Saints in Dorchester. I was accepted by the choir at 10 years old after trying out and spent the next 3 years practicing several times weekly and singing each Sunday or at performances at different churches during the holidays. After some time, I was chosen as Head Chorister, which was my first official leadership position that helped to foster the creativity, management, and role-modelling skills that I carry with me to this day in all of my work environments.

## **LEADERSHIP & PROJECTS**

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### **Web Stocks – Java Program/Android App**

2014 – 2016

I designed and worked with a fellow student on a Java program which scrapes Barron's web page then queries Yahoo Finance API to display stocks to watch on current day along with relevant tickers and other information in a neat, organized ListView on the screen. The source code for both the Android app and the Java-only version can be found on my GitHub. Fancy features like profile pictures were added later on.

### **CheckIt – Simulated Stock Portfolio/Research Website**

April – May 2015

I worked with 2 other team members to build a dynamic, simulated stock portfolio and stock research website. Libraries, tools, and languages including Bootstrap, HTML, CSS, PHP, JavaScript, MySQL, and the PubNub JS API were utilized. There is a very advanced level of PHP used to facilitate string data manipulation and handling of large amounts of other data organized into arrays and other structures. The site includes real-time, updating charts, search tools, and a live chat box hosted at <http://cscilab.bc.edu/~oconnonx/CheckIt>. The source code can be found on my GitHub.

### **Ruby on Rails Hackathon/Workshop – Build Twitter in a Weekend**

January 2015

I spent a single weekend building a Twitter-esque website using RoR technologies by utilizing several 'gems' and building several models, views, and controllers. I then pushed this application to the internet using the Bitnami developer package and Heroku app services. The site is hosted at <http://flahtweet.herokuapp.com/>. The source code can be found on my GitHub.

### **Boston College Computer Science Society member**

2014 – Present

I am involved with and attend several BC CS Society Events. Along with this, I help with setup in the Computer Science department, interact with fellow students and faculty, attend tech company information sessions and recruiter Q&As, and receive a constant flow of information about local and distant hackathons.

### **Boston College Division I Varsity Athletics**

2013 – 2014

I participated in the extremely competitive collegiate racing world at Boston College by trying out for and making the sailing team. I was coming off of a great high school sailing career in which I received

the ‘Most Outstanding Sailor’ award twice and served as team captain my senior year. Boston College is a consistently top-five ranked team with several championships from recent years on its track record. I was a very positive presence personality-wise and fostered a sense of community amongst the team while keeping the oftentimes grueling schedule lighthearted with motivation in the gym and great energy out on the water.

**Boston College Investment Club member**

2014 – 2015

Stock trading has been an interest of mine since I purchased my first shares of Microsoft around the age of 13. Boston College has a very avid community involved in finance and the stock market. By signing up for the investment club, I receive information about stock pitches, managing their large portfolio, and performing fundamental analysis.

**Stock Trading/Fundamental Analysis**

2014 – 2015

I participate in individual stock trading, relevant online forum discussion, company analysis, and active self-education about financial markets (Wall Street Journal, online materials).

## **VOLUNTEERING & SERVICE**

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**Catholic Charities Teen Center – Volunteer**

January 2017 – May 2017

The Teen Center at St. Peter’s parish provided me with a wonderful opportunity to return to my neighborhood of Dorchester, MA while still in school to give back to the community I was raised in. For 8 hours per week, I traveled to St. Peter’s to work in a largely Cape Verdean-populated program that provided homework help, mentoring, and hot meals each evening to students in need. This opportunity allowed me to build cultural competency, build relationships with younger students, hone my teaching skills, and make productive use of my down-time during the week.

**Boston College Freshmen League – Captain**

October 2016 – May 2017

The Freshmen League is an all-male program designed for first year men at BC. Freshmen are placed on a team with 7 other freshmen guys and 2 upperclassmen leaders called “Captains.” The purpose of the program is to help freshmen guys learn the ropes of BC, give them access to upperclassmen mentors, and get off campus to experience the city of Boston with a fun group of guys. Being a mentor in this program is allowing me to truly fulfill the BC motto of “People for Others.”

**Halftime retreat (Boston College) - Leader**

March 2017

Halftime is an invitation to step back from your busy life to think about how your major and future career fit in with who you really are. It is an opportunity to have real conversations with students, faculty, and staff about finding and pursuing passions. As a leader on the retreat it was my job to be welcoming to the participants, facilitate small-group conversations, and help everybody have an enriching experience.

**48 Hours retreat (Boston College) - Leader**

November 2016

48 Hours is a weekend-long retreat for Boston College freshmen. It is intended to take them away from the “bubble” of BC and introduce them to people and conversations they may not have encountered otherwise. It is a safe environment for a weekend of reflection, sharing, and healing. As a leader on the retreat it was my job to be welcoming to the participants, facilitate small-group conversations, and help everybody have an enriching experience.

## **D.E.E.P Program - Tutor**

January 2013 – April 2013

The D.E.E.P Program is a Dorchester-based program aimed at helping local students achieve in their studies. It provides a friendly, safe environment where students are matched with tutors for homework help and mentoring. It allowed me to build a relationship with a younger student attending my old middle-school. For 100 hours I built a friendship with this young student as well as providing helpful tips and constructive advice on homework assignments.

## **RECOMMENDATIONS**

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### **Revenue Solutions, Inc.**

*Software Engineer Intern*



### **Christopher Schipper**

#### **Full Stack Senior .Net Architect/Developer/Mentor**

“Mr. Flaherty was an exciting individual to work with. He was able to keep up on a demanding project with ever increasing requirements. His ability to locate answers and use unique resources to complete challenging assignments was a welcome addition. I wish him the best in his future endeavors and would certainly enjoy working with him again.”

August 19, 2015, Christopher managed John at Revenue Solutions, Inc.



### **Gustavo Ortega**

#### **Software Engineer, Developer and Programmer, .NET.**

“Mr. Flaherty is a promising star, fully-energized and looking forward to contribute in the IT business. Though we didn't work directly, he gained a reputation that talks for his willingness to go the right way.”

August 26, 2015, Gustavo managed John indirectly at Revenue Solutions, Inc.

### **Courageous Sailing**

*Instructor*



### **Dave Dilorenzo**

## **Executive Director at Courageous Sailing**

“I’ve come to know Jack well as a sailor, competitor, instructor, and coach around Courageous Sailing. He has tremendous energy and intelligence; is a natural, gifted leader; and has a deep commitment to our mission, supporting underserved Boston youth. Jack has a ton of potential and I’m looking forward to following his career in the years ahead. “

September 12, 2015, Dave managed John at Courageous Sailing Center for Youth, Inc.