

# William H O'Brien

## Work Experience

- Developer** Jun 2012 - Present  
*iVantage Health Analytics* (4 months)
- Refactored value-based purchasing calculator from a procedural to an object-oriented design
  - Lead multi-office staff meeting
  - Rapidly adopted three new languages, 4D, SQL, and PHP
- Hall Staff** Jan 2010 - May 2011  
*Dept. of Campus Life* (1 year 5 months)  
Colby College
- Developed autonomous residence hall program emphasizing self-governance
  - Road-mapped semester event programs and planned resources accordingly
  - Engaged residents with dorm events and daily interactions encouraging them to participate in making their dorms home
- EMT and Dispatcher** Jan 2008 - May 2011  
*Pittsford Volunteer Ambulance* (3 years 5 months)
- Directed ambulance crews across the county via radio communications in conjunction with the 911 call center
  - Coordinated multiple emergency services to ensure effective response to emergency situations
  - Applied urgent and potentially life-saving interventions to patients within the scope of well-defined protocols
  - Prioritized and negotiated needs of several agencies while on calls in order to ensure sufficient progression toward hitting time targets for contact, scene departure, and eventual transfer of care
  - Certified the accuracy of sensitive patient information ensuring complete documentation

## Languages & Frameworks

|                   |   |
|-------------------|---|
| Novice            | LaTeX   |
| Advanced Beginner | Jasmine, Rspec, Cucumber, Git, Spring Security      |
| Competent         | Ruby, CoffeeScript, JavaScript, Backbone.js, jQuery |
| Proficient        | Java, HTML, CSS, Spring (Core & MVC)                |

see Dreyfus model of skills acquisition

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## Education

2008 – 2012 **Bachelor of Arts, Colby College**  
*with Honors in Computer Science*  
Thesis: Web Applications and APIs in REST  
GPA: 3.39 Major: 3.59

## Personal Crusades & Side Projects

May 2012 – Present  
**Ruby on Rails** Converted thesis project to Rails to see if it would have been easier than in Java. Developed a strong appreciation for BDD. Deployed and continue to develop an online personal management service ([www.blockstep.com](http://www.blockstep.com)). *Experience with: Ruby, Rails, BDD, Rspec, Cucumber, Backbone.js, MongoDB.*

Jan 2011 – May 2012  
**Spring Framework and Virtual Machines** Developed a 3-tier todo-list application in Spring. Deployed each application tier on a separate VM. Built project into a senior thesis on RESTful web services. *Experience with: Java, Spring, Dependency Injection, Dynamic Proxies, Network Proxying, RAID, bash, HTTP, MVN, Git, Tomcat6, Hibernate, Transactions, REST, JSON-schema*

Fall 2010 – Jan 2011  
**Exploits in Networking** Hosted a number of web services for use on the school's network. Experience led to much reading about anonymous networking, copyright law, patent law, and the social implications of the Internet as a means of transferring information. Most work was done remotely via command-line. Consulted network administrator before deployment. *Experience with: DNS, iptables, MediaWiki, Redmine, DC++, Darknet, Bitcoin, Tor, OpenVPN, SSL certificates, HTCPCP, Subversion*

## Awards

May 2010 **Mid-year Magic Award**  
*Campus Life, Colby College*  
May 2008 **Natalie K. Meyer Memorial Award**  
March 2008 **Eagle Scout**  
*Boy Scouts of America*  
2006 - 2007 **Coaches Award**  
*Pittsford Wrestling*