

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).
Experience with: BDD, Cucumber, Backbone.js, Ruby, Rails, 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: 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