William H O'Brien

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Work Experience

Sr. Software Engineer Mar 2015 - Present
Software Engineer Dec 2012 - Feb 2015
Tapjoy, Inc.

- **Platform Engineering**
  Productionalized kafka-based reporting pipeline. Ingesting 1.3M messages per minute to provide near real-time data to partners.

- **Publisher Analytics**
  Architected the unified JS application between Tapjoy and Korea-based mobile-analytics acquisition, 5Rocks.

- **Monitoring & Alerting Framework**
  Assisted with the development of a distributed metrics-gathering application. Features include realtime health-checks, alerting, and stats collection. Deployed on several hundred nodes.

- **Management Console for Partners**
  Integrated a new credit card payment processor, secured logins with SSO, and generally expanded the capabilities of the ad-campaign management web app.

Developer Jun 2012 - Nov 2012
iVantage Health Analytics (6 months)

- **Value-Based Purchasing Calculator**
  Independently produced and launched product for identifying missed revenue opportunities.

- **Static Code Analysis**
  Introduced Sonar to two core-projects.

Hall Staff Jan 2010 - May 2011
Dept. of Campus Life (1 year 5 months)
Colby College

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 urgent situations.

- **Applied** urgent and potentially life-saving interventions to patients within the scope of well-defined protocols.

- **Prioritized and negotiated** needs of several agencies in the field to ensure sufficient progression toward time targets.

Awards

May 2008	**Natalie K. Meyer Memorial Award**	
March 2008	**Eagle Scout**	
	Boy Scouts of America	
2006 - 2007	**Coaches' Award**	
	Pittsford Wrestling	

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

Current

Ramekin.io *Meal Planning & Tracking*
Nutrition science with clojure. Mason jars for macro-nutrient accounting and meal planning.

F7ops.com *Combat Planning Fallacies*
Collection of tools and experiments to prevent overly optimistic project planning.

Service Discovery *Configuration Management*
Experiments in service discovery using Consul, Docker, AWS, and Nginx.

Past

Spaced Repetition *Review in Optimal Intervals*
Anki clone with markdown and MathML.

Thesis Project *RESTfulness of Web APIs*
API and client application to illustrate how Roy Fielding's REST dissertation maps to web APIs. *Java, Spring, Hibernate*

Networking Excursions *Run all the Services*
Hosted and remotely managed a number of web services for use on Colby's network. Consulted network administrator before deployment. *DNS, iptables, MediaWiki, Redmine, DC++, Tor, OpenVPN, Apache*

Technical Competencies

	see Dreyfus model of skills acquisition
Proficient	JavaScript, the modern web platform, HTTP API design
Competent	AWS platform, scaling web applications, Ruby, Node.js, service design, Linux, networking, Docker
Advanced Beginner	Bash, Clojure, Chef, Java
Novice	Scala, Go, LaTeX