

Bob Holt

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SENIOR ENGINEER with 20 years experience as a full-stack developer for universities, marketing agencies, and consultancies.

TECHNICAL EXPERTISE

- **Web technologies:** Framework and language agnostic. Skilled in JavaScript, Python, PHP, and C#. Experienced with developing in several front and back-end frameworks, but focused on language fundamentals over leaning on the framework.
- **Architect:** Designs, evangelizes, and implements complex systems.
- **Consultant:** Works with project managers to discover and delivers what the client needs.
- **User-focused:** Cognizant of why customers choose to use particular software, the importance of end-user documentation, and how decisions made during development can have unintended downstream consequences.
- **Team Lead and Manager:** Over 6 years experience in leading engineering teams as both a check-in manager and mentor.

PROFESSIONAL EXPERIENCE

Bocoup, LLC

Senior Engineer

2013–Present

Bocoup is an Open Web technology consultancy. Their goal is to encourage the use and adoption of Open Web technologies through consulting, training, and community development.

At Bocoup, I help clients achieve their goals using open source tools. I work in all areas of development, from building the UI in HTML and CSS to setting up infrastructure with Terraform and Ansible. I leverage my knowledge of multiple languages and frameworks to choose the right stack for the client and their team.

Accomplishments:

- Added support for Apple Safari and Microsoft Edge to the W3C's automated Web Platform Tests runner
- Developed visualization-heavy React/D3 application for mapping and filtering millions of database records
- Devised and prototyped innovative ways to visualize uncertainty for MIT-related startup
- Created animated JavaScript games while still meeting performance goals
- Taught classes to hundreds of students on everything from introductory HTML to architecting large-scale JavaScript applications

Technologies Used: JavaScript, React, Ampersand.js, Backbone.js, D3, NodeJS, Express, Grunt, Python, Flask, pytest, PHP, WordPress, Vagrant, Docker, Ansible, Terraform, PostgreSQL, Web Workers, ~~LaTeX~~

Sapient Global Markets

Manager

2012–2013

Sapient Global Markets is a consulting firm specializing in improving technology and business strategy for clients in capital and commodity markets.

At Sapient, I managed a distributed team of developers, coaching them to meet their personal and professional goals while delivering valuable expertise to my clients.

Accomplishments:

- Led combined team of Sapient and client employees to modernize web architecture and design/development workflow for major financial services firm
- Rewrote career paths, skills matrix, and job descriptions for Interactive Development practice to bring in line with modern web development
- Coached and provided code reviews to team members in London, Boston, New York, Mumbai, Bengaluru, and Gurgaon

Technologies Used: JavaScript, BackboneJS, Grunt

Genuine Interactive

Associate Director

2011–2012

Genuine Interactive is a Boston-based digital marketing agency that provides creative technology services alongside an extensive data-gathering operation that provides a measurement of return on investment to its clients.

At Genuine, I helped manage a team of ten front-end web developers, providing for their continued growth from entry-level to expert while delivering cutting-edge marketing sites for a wide variety of clients.

Accomplishments:

- Taught weekly basic JavaScript classes to members of the front-end development team
- Created a six-hour-long instructor-led drug development simulation for new hires at one of the world's largest multinational pharmaceutical companies
- Oversaw a subcontractor's work in developing a first-of-its-kind online collection catalogue for the Museum of Fine Arts

Technologies Used: JavaScript, jQuery, BackboneJS, Adobe AIR, Grunt, PHP, Drupal, WordPress

Isobar

Developer

2010–2011

Isobar is a global full-service digital agency widely known for its engineering acumen.

At Isobar, I moved from project to project as needs arose. This required being able to develop a working knowledge of a new language at a moment's notice, and I contributed to C#, Java, and JavaScript projects during my time there.

Accomplishments:

- Took ownership of and refactored an online fitness dashboard application consisting of over 100,000 lines of framework-free JavaScript code.
- Joined .NET and JavaScript products to legacy client systems via RESTful Web Services
- Improved search logic and hardened SQL queries for global pharmaceutical and medical device company.

Technologies Used: JavaScript, jQuery, C#, ASP.NET, PHP, MySQL

Boston University

Web Producer

2009–2010

Boston University is a private research University in Boston, Massachusetts.

At BU, I was a part of Interactive Development, which worked as an internal university-serving digital marketing agency. We helped all of the schools and departments at the University transition their sites to WordPressMU while updating and improving their visual identity.

Accomplishments:

- Devised information architecture and did initial design of the University's first online-only Bulletin (course catalog)
- Developed custom themes and plugins for WordPress MU
- Presented site design proposals and WordPress training to non-developer clients including professors, deans, and provosts

Technologies Used: JavaScript, PHP, WordPress

Oasis Technology Partners (now part of Rightpoint)

Web Application Developer

2008–2009

Oasis Technology Partners was a digital agency focusing on applications built on ASP.NET and Adobe Flash.

At Oasis, I increased my development expertise through a series of site builds, system administration, and team knowledge-sharing.

Accomplishments:

- Wrote Windows Services to automate encryption, compression, and FTP of database data to client
- Introduced jQuery to the front-end development process, replacing the company's usage of MooTools and PrototypeJS
- Built the then-new (2009) mission-critical homepage for Standard and Poor's
- Administered high-traffic server environment and customer database for specialty apparel retail chain

Technologies Used: JavaScript, jQuery, C#, ASP.NET, Classic ASP, SQL Server

EDUCATION

Bachelor of Science, Economics

Georgia Institute of Technology, Atlanta, GA

THESIS - The Hotelling Model and Free/Open Source Software

Minor, International Affairs

December 2002

PRESENTATIONS

- ["Domain-Driven Web Applications Using Backbone,"](#) Backbone Conference. 2013
- ["Home-growing Top-Notch Developers,"](#) jQuery Conference Portland. 2013

PUBLICATIONS

- ["Staffing for HTML5,"](#) Sapient Global Markets Blog. 2013
- ["Responsive Web Design,"](#) Sapient Global Markets Blog. 2013
- ["What We Mean When We Talk About HTML5,"](#) Sapient Global Markets Blog. 2013

INTERESTS

drawing, knitting, gardening, genealogy, improv comedy, musical performance, town planning

testing, software architecture, API design, database design, data analysis, data visualization