

## Bob Holt

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**PRINCIPAL SOFTWARE ENGINEER** with experience in design, architecture, programming, and management. Takes on high-risk core business and software problems and finds a solution that respects customers, time, budget, and staffing. Committed to the idea that strong teams build strong software.

### PROFESSIONAL EXPERIENCE

#### *Self-Employed*

##### **Consulting Principal Engineer**

2021–present

- Empower teams of engineers to build software in a cross-functional, collaborative manner
- Identify, document, and implement reusable patterns for writing testable and maintainable code
- Brought trustworthiness to currency trading platform by refactoring all transactions to be idempotent
- Improved uptime of high-volume investment app by altering core code to use read replica database
- Proposed and implemented feature flag system to improve safety and velocity of changes to codebase
- Created onboarding process for engineering new-hires in rapidly growing organization

Node.js, TypeScript, React, PostgreSQL

#### *Splice*

##### **Principal Engineer**

2017–2020

- Led team responsible for rewriting of multi-million-dollar payments processing system
- Designed and delivered Splice's first external API and served as technical representative to partners
- Drove high level strategy to model and rebuild Splice's architecture using a Domain-Driven approach
- Collaborated on reasoning and decisionmaking as a part of Software Architecture Review Committee
- Updated engineering interview process toward a more objective, rubric-based assessment

Go, MySQL

#### *Bocoup, LLC*

##### **Senior Engineer**

2013–2017

- Added support for Safari and Edge browsers to the W3C's automated Web Platform Tests runner
- Developed visualization-heavy React/D3 application to map and filter millions of database records
- Devised and prototyped new ways to visualize uncertainty for MIT-related startup
- Taught hundreds of students everything from HTML to architecting large-scale applications

JavaScript, React, Ampersand.js, Backbone.js, D3, Node.js, Express, Grunt, Python, Flask, pytest, Go, PHP, WordPress, Vagrant, Docker, Ansible, Terraform, PostgreSQL, Web Workers,  $\LaTeX$

*Sapient Global Markets* (acquired by Publicis in 2015)

**Manager**

2012–2013

- Led team to transition major financial firm’s legacy architecture and workflow to modular approach
- Modernized career paths, skills matrix, and job descriptions for Interactive Development group
- Coached and provided code reviews to team members in the U.S., U.K., and India

JavaScript, BackboneJS, Grunt

*Genuine Interactive*

**Associate Director**

2011–2012

- Taught weekly basic JavaScript classes to members of the front-end development team
- Created six-hour drug development simulation for a large multinational pharmaceutical firm
- Oversaw development of first-of-its-kind online collection catalogue for Museum of Fine Arts

JavaScript, jQuery, BackboneJS, Adobe AIR, Grunt, PHP, Drupal, WordPress

*Isobar*

**Developer**

2010–2011

- Quickly cultivated working knowledge of new languages as needs arose
- Refactored online fitness dashboard consisting of over 100k lines of JavaScript code
- Joined .NET and JavaScript products to legacy client systems via RESTful Web Services

JavaScript, jQuery, C#, ASP.NET, PHP, MySQL

## EDUCATION

*Bachelor of Science, Economics*  
*Minor, International Affairs*

Georgia Institute of Technology  
Atlanta, GA

## 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 ([syndicated on Dice.com](#))
- “Responsive Web Design,” Sapient Global Markets Blog. 2013 ([syndicated on Dice.com](#))
- “What We Mean When We Talk About HTML5,” Sapient Global Markets Blog. 2013 ([syndicated on Dice.com](#))