

Richard Thompson

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Technology / Skills

- Angular
- HTML / CSS
- REST API
- Google Calendar
- Node.js
- Jasmine / Karma
- Cypress
- Jenkins CI / CD
- MongoDB
- SQL Server
- Stripe API
- Google Sheets
- MySQL
- Git / GitHub
- Ruby on Rails
- Material UI
- Javascript
- Heroku
- Google Maps
- Express

Web Development Experience

Full Stack Web Developer
Freelance / Independent

Boulder, CO
1/2017 - current

I develop web applications using a technology stack of Angular, Node.js, MongoDB, and MySQL. I am experienced building REST API's and integrating with 3rd-party SaaS products through web API and class libraries. A portfolio of my work is available at <https://crush-development.com/portfolio>.

Projects

Satellite Image Acquisition

Angular web app used internally at Digital Globe (Denver, CO). Upgraded app from Angular 2 to Angular 6. Implemented NgRx for improved state management. Developed functional testing framework using Cypress and Cucumber. Implemented functionality to filter and search image acquisition data. Worked with staff to improve best practices. Worked with product manager and scrum master to develop user stories.

Mobile App for Personal Trainers

This application provides personal trainers with productivity tools and remote client management capability. I incorporated chat functionality by utilizing Google Firestore real-time database. I created a native-like interface using the PrimeNG UI library. I implemented a subscription payment model through API integration with Stripe. App functionality included calendar management and notifications.

Local Events App

This application provides a listing of local events (live shows, festivals, community events, etc.) with the ability to search by date, location, and event type. The app incorporates event data from CitySpark via API integration. The app performs geolocation lookup and provides mapped results via integration with Google Maps. Integration with Google Calendar allows users to add upcoming events to their personal calendar. The app is available at <https://www.yohitit.com>.

Stripe Automation Server

The client needed custom business logic for a ClickFunnels project that would allow for swapping subscription products after purchase. I built a server in Node.js and Express that integrated with Stripe via web hooks and API calls. Functionality included logging and environment configuration ability. Solution was deployed on Heroku's cloud hosting platform.

Software Engineer
SumTotal Systems, Inc.

Gainesville, FL
10/2010 - 1/2017

SumTotal provides HR software in the areas of talent management and learning. Upon hire, I served as technical lead for knowledge transfer during the acquisition of a competing product. The platform was C++, IIS web server, SQL Server, HTML, CSS, and javascript. I worked on the sustained engineering team and distinguished myself by posting the top productivity numbers for resolving defects each year at SumTotal. For large clients with performance issues I provided custom database solutions utilizing SQL Server Integration Services (SSIS). The success of the talent management product helped to create enough value in the company for acquisition by Skillsoft. Upon this acquisition I worked on a project to integrate our suite of products into a single web portal.

Web Developer
Capsys Corp

Brooklyn, NY
8/2006 - 9/2010

Capsys is a modular construction firm. Buildings are broken up into modules that are manufactured in a factory in the Brooklyn Navy Yard. The modules are then shipped to the construction site and placed into position by crane. I developed a web application to manage the manufacturing process and coordinate the activities of purchasing, production, QA, and shipping. I built the application on a platform of Ruby on Rails, Apache web server, and MySQL database. The application resolved several operational pain points by enhancing communication between departments. Through reporting tools, management gained real-time visibility into production which improved decision making.

Web Developer
CCBN

Boston, MA
6/1998 - 1/2002

In the early internet days, I helped to develop a SaaS product that provided investor relation content to the websites of publicly traded companies. The platform was SQL Server, ASP, and IIS web server. CCBN partnered with AOL. My role was developing technology to provide financial content to AOL's web site. The challenge for this project was providing dynamic content at static page speeds. I met this challenge through creative use of XML and XSL, technologies that were new at the time. The success of this project helped to create sufficient value to allow CCBN to be acquired by Thomson Reuters.

Additional Experience

Project Manager
Degrove Surveyors, Inc.

Gainesville, FL
6/2004 - 7/2006

I worked at one of Degrove's newly created offices. My responsibility was hiring, training, and supervising field staff to service a growing list of construction layout projects. I handled mapping and stakeout computation using AutoCAD and other software tools.

Environmental Noise Engineer
Harris Miller Miller & Hanson, Inc.

Boston, MA
6/1995 - 5/1998

I performed field work and data analysis for environmental noise impact studies of airports, highways, and railways. I developed an application in Visual Basic to process and analyze acoustical data collected by LD-870 noise monitoring devices. I travelled across the United States, Europe, and Puerto Rico performing field measurements to document baseline noise levels. I developed noise prediction models to assess the impact of proposed infrastructure projects.

Elementary School Science Teacher
Colegio SEK

San José, Costa Rica
1/1994 - 12/1994

I instructed 4th grade students in subjects of physical, biological, and earth sciences. I developed lesson plans in accordance with national requirements, organized field trips, and met with parents to discuss student academic performance.

Real Estate Agent
Agatha Marple Realty

Cambridge, MA
9/1991 - 12/1993

I sold real estate in the Boston metro area, I developed a client base by qualifying leads, and prospected for local listings via cold calls and door-to-door canvassing.

Education

B.S. in Geomatics
University of Florida

Gainesville, FL
9/2002 - 4/2004

B.S. in Physics
Boston University

Boston, MA
9/1987 - 5/1991

Volunteer Experience

Colorado Ocean Coalition

Boulder, CO

The coalition's mission is to promote a healthy ocean through education and community engagement. I help by donating time at local events to educate the public on ways we can make a positive impact in everyday life by reducing our use of plastics and harmful chemicals.