

## Richard Thompson

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### Technologies / Skills

- React
- HTML / CSS
- Javascript
- TypeScript
- Angular
- Tailwind CSS
- Node.js
- REST API
- Ethereum
- Solidity
- Truffle
- Web3
- Jenkins CI / CD
- Git / GitHub
- Ruby on Rails
- Stripe
- GCP / Firebase
- Heroku
- MongoDB
- MySQL

### Web Development Experience

Software Engineer  
Maxar

New York, NY  
10/2018 - current

Maxar operates a fleet of satellites that provide high resolution imagery to entities such as the U.S. government, Google Maps, foreign governments, and private companies. I develop internal web applications used to track satellite access, image capture, communication, and client billing.

Full Stack Web Developer  
Freelance

New York, NY  
1/2017 - current

I develop web applications using a variety of technology stacks. My portfolio is available at <https://rthompson.dev>. Listed below are some highlighted projects.

#### Groovy Dudes NFT Collection

Created an ERC-721 compliant NFT collection on the Ethereum network integrated with OpenSea. Generated unique artwork and attributes for each NFT programmatically. Developed the smart contract in Solidity to manage the collection on the blockchain. Built a web app in React with MetaMask wallet integration for viewing and minting NFT items. The app is available at <https://groovydudesnft.com>

#### Personal Trainer App

This app provides personal trainers with productivity tools and remote client management capability. I built the backend using Google Firebase for storage, authentication, database, and cloud functions. I developed the front end in Angular. I implemented a subscription payment model through integration with Stripe. 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 third parties 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>

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.

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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  
4/2004 - 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.

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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.

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Elementary School Science Teacher  
Colegio SEK

San José, Costa Rica  
1/1994 - 12/1994

I instructed 4th grade students in the 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.

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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