Thomas R. Hallock

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IN ONE LINE: I write high-performance, high quality software that runs throughout the web stack, from cloud configurations, services, web servers, to client applications.

RECENTLY

I have contributed to open source projects, including:
- NPM
- Jest
- react-toolbox
- backbone-collection

I have published over 20 open source projects, including:
- npm-build-cache: a shared module cache that gives a tremendous speed boost for rebuilds and dev teams.
- mimic-webpack: apply your Webpack config to node's runtime
- b3nd: knockout-style bindings for Backbone views
- template-view: quick and easy templates for your Backbone views

I've used these languages:
JavaScript, Bash, Groovy, Haskell, SQL, Python, C++, Java, Zsh, and PHP.

Modern frameworks that I've used recently:
Koa / Express, React, Apollo Client, Server, etc.., Material UI, JSS, Relay, Grails, lodash, MathJax, and node.js.

My Preferred languages, tools, and frameworks:
- Source control: git
- Dependency management: yarn
- Bundling: Webpack for apps, rollup.js for packages
- Testing: Mocha or Jest, depending on the project
- Client-side: React + Redux + Relay + GraphQL

EDUCATION

B.S. Computer Science
University of Texas at Austin

Relevant courses: Compilers, Operating Systems, OOP, Abstract Data Types, Digital Logic Design, Computer Architecture, Automata Theory, Neural Networks, Artificial Intelligence, Computer Graphics.

EXPERIENCE

Sr. Software Engineer (IC4)   **2019 - 2020**
Compass (Real Estate) *compass.com*
- Engineering lead for team of 4 on comparative market analysis project, Built from scratch a suite of web applications for real estate agents to use to create nice-looking reports to compare their client's property to similar properties. Used React, koa, GraphQL, Redis. Introduced team to modern patterns for universal rendering, state management and CSS.
- Wrote a web application that all other teams could use for anytime deploys to EKS (kubernetes).
- Built a web application that made it quick and easy for stakeholders to create incidents on PagerDuty and OpsGenie for production-level failures in critical systems.
- GraphQL: Implemented the first production-level GraphQL application in the org and set an example for five other projects that followed in the following months. Advocated for the technology and demonstrated several practical patterns that other teams were able to leverage in the following months in order to bring their applications to production.
- Onboarded new ~20 new hires so they could become productive on their first day in the new Seattle office
- Developed and documented a few novel techniques for detecting wasteful logging. Reduced logging volume by 2/3rds by finding logging.

Sr. Software Engineer   **2017 - 2019**
Providence Health and Services Digital Innovation Group *providence-digitalinnovation.jobs / odhp.provinnovate.com*
- Designed and implemented a web application for patients to upload and OCR pictures of their insurance card as they schedule an appointment with low-acuity clinics.
- Sr. Engineer on a 5 person team that built a universal React application for scheduling low-acuity appointments at clinics, as well as online virtual visits with NPs.
- Championed the case for feature-flag-based slow roll-outs to management, and implemented a redux adapter for using feature flags in React-redux applications. All new features at Providence are now rolled out using this system.
- Implemented an i18n strategy for React applications that has been adopted across the organization.
- Introduced package-based development as a way for multiple teams to leverage each other's work.
- Triaged any production-level issues that affected patients, as a member of a rotating on-call team.

Sr. Front End Developer   **2014 - 2016**
1stdibs.com
- Created and launched MessageCenter, a web email system for communication and commerce between customers and dealers on 1stdibs.com.
- Introduced development team to best practices for source control with git.
- Encouraged test-oriented development by giving a presentation on how to write BDD tests within the existing codebase and exposed current test coverage through front-end coverage reports.
- Organized front-end codebase into self-contained view components.

Sr. Front End Developer   **2012 - 2013**
LearningPod, Inc. (The Washington Post Company)
- Architected a set of front-end modules to create a rich user experience for educators, students, and developers.
- Built a rich text editor for authoring math content for a new learning management system. Used `contenteditable` and MathJax on top of a Groovy + Grails stack.
- Created a suite of automated front-end tests using WebDriver and the Grails functional test harness.

Sr. Web Application Developer   **2010 - 2012**
Roubini Global Economics
- Wrote a forum system from scratch that remains in use at the company.
- Designed multiple internal web-based single-page business applications using ExtJS
- Developed interactive widgets using JavaScript.
- Launched and maintained Economonitor.com using WordPress Multisite and a set of custom plug-ins.
- Release manager for production code pushes. Used Trac, Subversion, and a bit of scripting.

VOLUNTEER ACTIVITIES & HOBBIES

TEALS: Volunteer Teacher for AP Computer science
Taught AP computer science in Java at a New York City public high school.   **2014 - 2015**

University of Texas Cycling Sports Club Webmaster, Nationals Team Leader, and Track Team President   **2001 - 2003**

Just for fun: Retired Cat 1 Road Racer, Sailing, Hang Gliding, Hiking, Snow Skiing