

Robert Brownstein

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Experience

Better | Senior Software Engineer

(2019 - Present)

- Built real estate service in 4 months, growing it's engineering team from 2 to 5
- Improved core workflow engine and a variety of API integrations with our many external partners
- Introduced GraphQL into our core product, and built automatic type converters to automatically generate and sync types from TypeScript
- Built React-based internal-facing UI for mortgage engine
- Wrote a variety of libraries compiled with Webpack and later Rollup

Social Tables (now Cvent) | Engineer -> Engineering Manager -> Lead Engineer

(2016 - 2019)

- As an IC, lead development of layout automation API/algorithm, wrote a good chunk of the authentication and permissions infrastructure, created external developer portal, prototyped a 3D scan to floorplan converter, and wrote the majority of an internal floorplan authoring tool in my spare time that became a major success.
- Managed a team of 4 engineers that built and released multiple products, including a data-intensive user dashboard and an internal floorplan authoring tool (partially released open-source as [OpenFPC](#)).
- Balanced trade-offs between technical debt, feature delivery, and scheduling
- Resumed work as an IC in order to work on challenging front-end engineering problems in Diagram, the company's flagship in-browser CAD product. Built advanced template management, section management, 3D preview capabilities and optimized core 2D rendering engine

Hinge | Backend Engineer

(2015)

- Maintained and improved a Python based service layer powering a mobile app with 0.5M DAU
- Introduced CI into development workflow, and lead efforts to produce testable code
- Tackled scaling challenges while modernizing a legacy codebase and DB schema with over a 1B records

Jibe | Associate Engineer

(2014 - 2015)

- Built the service layer of a multi-tenant talent network management product
- Implemented search, SSO, logging, and role-based access control

Illumina Consulting Group | Web Developer

(2011 - 2013)

- Earned and supported subcontract with NITAAC, an NIH-based GWAC
 - Served as sole maintainer for a website handling several multi-billion dollar contracts
 - Rebuilt web services to greatly improve usability and performance
- Developed a complex client-side library to navigate through large datasets using faceted browsing

Education

BS in Computer Science - University of Maryland, College Park

(2014)

Skills

- Creating and improving systems of computers, processes, and people
- Languages: Javascript/Typescript, Python, C, Java, Ruby, Sh/Bash, SQL, PHP, Sass/Less
- Frameworks / DBs / Buzzwords: React, Redux, Node, Three.js, WebGL, Webpack, Elasticsearch, various SQLs, some NoSQLs, Redis, RethinkDB, Docker, AWS, Django, Drupal, Rails, Spring, GraphQL, Agile.
- Can / will RTFM