

BEN “FUZZY” WEISSMANN

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SKILLS

- **Computer Languages:** Extensive experience with Javascript/NodeJS, Typescript, Go, Ruby, Python, Java, HTML, CSS, Bash, SQL. Limited experience with PHP and C++.
- **Libraries and Frameworks:** React, Redux, jQuery. Meteor, Electron, Ruby on Rails, Sinatra, Django.
- **Databases, Tools, and Infrastructure:** PostgreSQL, MongoDB, Redis, RabbitMQ. AWS, Kubernetes, Docker, Terraform, Chef, Packer. Webpack, ESLint, Flow. Jenkins, Go.CD, Concourse.
- **Operating Systems:** Mac OS X. Ubuntu, Debian, and Fedora Linux.

EDUCATION

Massachusetts Institute of Technology

Cambridge, MA

B.S. in Computer Science; Humanities concentration in Writing · Cumulative GPA: 4.6/5.0

June 2014

Selected Coursework: Network and Computer Security, Computer Graphics, Computer Vision, User Interface Design, Computer Systems Security, Design and Analysis of Algorithms, Computation Structures, Linear Algebra, Differential Equations, Multivariate Calculus, Discrete Mathematics

RELEVANT EXPERIENCE

Tulip (<https://tulip.co>)

Somerville, MA

First Employee, Software Engineer, Architecture Lead

September 2014 - Present

- As first employee, architected, designed, implemented, tested, and deployed a web-based system for creating instrumented, connected apps for the manufacturing shop floor.
- Developed web-based software using NodeJS, React/Redux, Go, MongoDB, Postgres, Redis, and RabbitMQ.
- Created processes for testing, deploying, and monitoring software in use for production-critical manufacturing applications.
- Held broad architectural and implementation responsibilities across front-end and back-end software development, database management, technical operations / DevOps, product design, and interaction with customers' IT.
- As the team grew from 3 to 70+ and raised over \$50M in venture capital, worked on recruiting, mentorship, team organization, roadmap planning, and coordination with business development and customer operations teams.

MIT Media Lab

Cambridge, MA

Undergraduate Researcher

June 2009 - August 2014

- Built Lens, a web-based Javascript framework for creating projected augmented reality applications.
- Designed and implemented a Python framework to wrap a C++ gesture recognition library.
- Developed visualization and data mining tools to explore data about the Media Lab's research history.
- Worked on Cartagen (<http://cartagen.org>), a dynamic mapping framework that uses client-side canvas rendering rather than server-side image tile rendering.

Twitter, Revenue Quality Team

San Francisco, CA

Software Engineering Intern

May 2012 - December 2012

- Architected and implemented Clockwork Raven, an open-source, web-based tool for human-powered data analysis using Mechanical Turk. Used by multiple teams at Twitter to gather tens of thousands of judgments weekly. Code: <https://github.com/twitter-archive/clockworkraven/>

TripAdvisor, Commerce Team

Newton, MA

Software Engineering Intern

December 2010 - August 2011

- Updated forecasting system to create a real-time calendar to summarize advertising budgets using Ruby on Rails.
- Prototyped a distributed system to predict how changes in advertising configuration would impact clickthrough and sales, running on a small cluster of machines using the Hadoop Map/Reduce framework.

PUBLICATIONS AND PROJECTS

Typing the Untyped

Strange Loop

Soundness in Gradual Type Systems

September 2019

- A conference talk about soundness and completeness in gradual type systems, including topics in covariance/contravariance, flow-sensitive typing, and gradual type system design.
- Video: <https://www.youtube.com/watch?v=uJHD2xyv7xo>. Slides: <https://bit.ly/sl-types>

50 Bills 50 States

Remote

Website Lead

December 2016 - October 2017

- Designed, built, and deployed a website for 50 Bills 50 States, a campaign led by Sam Brinton to introduce legislation banning conversion therapy in all 50 states. Created tooling to update the website based on a spreadsheet the legislative team could update, and also managed email systems for the campaign domain.
- Handed off the website to The Trevor Project web team after the campaign joined The Trevor Project. Archive of original website: <https://50bills50states.benweissmann.com/>