BEN "FUZZY" WEISSMANN

ben@benweissmann.com · https://benweissmann.com · https://github.com/benweissmann

SKILLS

- **Computer Languages:** Extensive experience with Javascript/NodeJS, Typescript, Python, Go, Ruby, 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/Redshift, 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.
- **Organizing & Progressive Tech:** Civis, NGP/VAN, Mobilize America, Mobilize.io, Mobile Commons, BSD Tools.

RELEVANT EXPERIENCE

VoteAmerica — Remote, USA
Senior Software Engineer — April 2020 - Present
- Building technology to increase voter turnout and expand access to vote-by-mail.
- Enabling our programs to support and empower the most vulnerable voters to navigate the path to exercising their vote.

Warren For President (https://elizabethwarren.com) — Boston, MA
Software Engineer, Organizing Technology — December 2019 - March 2020
- Worked on a team of five software engineers and product managers to build out a fork of Spoke, an open-source P2P texting system. Over just ten days, scaled from zero to 4 million texts per day sent by thousands of volunteers with only ten minutes of downtime during program hours.
- Identified the highest-impact projects to improve integration between organizing tools based on input from product managers, organizers, and the grassroots mobilization team. Implemented batch jobs and webhooks to synchronize data between dozens of campaign systems, including blast email and SMS programs, volunteer engagement platforms, NGP/VAN, our Redshift/Civis data warehouse, and Google Spreadsheets/Airtable/Quickbase.
- Built volunteer and organizer tools for caucus night data collection and analysis. Created a hotline system for election-day voter information and protection using Twilio, Ooma, Zendesk, and Helpscout.

Tulip (https://tulip.co) — Somerville, MA
First Employee, Software Engineer, Architecture Lead — Full-Time Sept 2014 - Dec 2019; Advisor Dec 2019 - 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 used in production-critical manufacturing systems.
- 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.
- Continue to serve as an advisor on architecture, long-term technical planning, partnerships and integrations, and organizational design and team-building.

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/

EDUCATION

Massachusetts Institute of Technology — Cambridge, MA
B.S. in Computer Science; Humanities concentration in Writing — June 2014

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/