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## > LANGUAGES AND TECHNOLOGIES

- **Proficient:** HTML5, CSS3, JavaScript, React, Redux, Typescript/Flow, Ruby on Rails, Python, Git
  - **Exposure:** D3.js, Three.js, Immutable, Next.js, Vite, R, PHP, SQL, Cypher, Postgres, Redis, AWS, MapReduce
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## > PROFESSIONAL EXPERIENCE

### **Microbyr | Lead UI/UX Software Engineer | Berkeley, CA**

December 2022 - April 2023

- Designed web platform for scientists to manage research data and streamline automation using React and Typescript on Vite with Python (Flask) backend with Cypher, updated from a static vanilla JS/jQuery site
- Automated data validation in Airtable via Javascript scripts, improving scientist efficiency & eliminating errors

### **Snorkel AI | Front-End Software Engineer | Redwood City, CA**

June 2021 - July 2022

- Worked as part of the User Experience Engineering team, which owned front-end across the company, to build and improve an auto-labeling machine learning platform built in React, Typescript, Tailwind, Next.js, and Python.
- Led and executed a foundational design system project to modularize front-end components with accessibility in mind, which was then used to redesign and re-implement a new internal platform.
- Created extensive Cypress end-to-end tests to trace crucial foundational testing paths to detect regressions before merging, significantly reducing regressions.
- Implemented front-end of a highly-requested crucial new multi-tenant feature, which led directly to multiple new enterprise client contracts.

### **Yelp Inc. | Senior Full-Stack Software Engineer | San Francisco, CA**

September 2019 - April 2020

- Built and iterated quickly on an experimental web application built in React and Python as part of the Market Fit team (including a designer and product manager). Maintained 100% test coverage with Enzyme test framework.
- Introduced and implemented a new library to build a new front-end feature that tripled purchases (with a confidence interval of 215 - 766% increase over previous iteration).
- Championed more robust code and error tracing beyond on-call duties, leading to raised awareness of code quality.

### **Cruise Automation | Full-Stack Software Engineer | San Francisco, CA**

December 2017 - May 2019

- Maintained, created, and updated tools international contractors used to label data from self-driving cars on the Ground Truth team, using React, Redux, Flow, Three.js, Immutable, and Go, among other tools and technologies.
- Led a project (that won the teamwide hackathon) to pinpoint and address the most pressing needs of labelers, creating and deploying a semi-automated tool improvement that boosted production from labelers by 50%.
- Owned high-priority user interface needs and collaborated daily with the Operations team to address highest-priority UI needs, ultimately improving costs per task from 20% to 11% in one quarter.

### **WRKSHP | Server (Backend) Software Engineer | San Francisco, CA**

March 2016 - December 2017

- Worked on Battle Camp & Beat Fever, two massively multiplayer mobile games with 1 million unique users daily and 2 million monthly using Ruby on Rails, DynamoDB, SQS, S3, Redis, Redshift, memcached on EC2, AWS services.
- Often owned daily production deploys with new features as A/B tests, which maximized user retention to over 70%.

### **Lawrence Berkeley National Lab | Computational Intern | Berkeley, CA**

May 2015 - August 2015

- Completely rebuilt the [Fitness Browser](#), a site written with [Perl](#), [SQLite3](#), [JavaScript](#), and [HTML/CSS](#) to display data about bacterial genetic fitness in different media from experiments done at the Arkin Lab.
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## > SIDE PROJECTS

### **TrellNo | Solo Developer | <https://trellno.netlify.app/>**

July 2020 - present

- Developed a to-do list web app and Chrome extension with React, including drag-and-drop cards, dark mode toggle, custom color columns, and local storage save with import and export, then modified the project to be used as a local Chrome New Tab extension. [Open-sourced the project.](#)
- Ideated, planned, created, and deployed the entire project, with live suggestions from viewers on stream.

### **Rially Mundane | Coding Streamer | <http://ria.codes>**

April 2020 - March 2021

- Live-streamed technical problem-solving, coding challenges, project-building, and technical and non-technical discussions 4-5 nights/week on Twitch to 2.2k followers, with an engaged audience of up to several hundred nightly.
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## > EDUCATION

### **University of California, Berkeley**

August 2011 - December 2015

*Bachelor of Arts in Integrative Biology with Minor in Computer Science*