

# Lucas Parzych

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I'm an experienced full stack software developer with a deep appreciation for the many facets of engineering for the modern web, including: responsive design, security, performance and progressive enhancement. I aim to develop scalable web applications that push the edge of the platform.

## **Thrive Bioscience, Boston MA** — *Software Engineer*

October 2016 - Present

From concept, to design, to implementation, I've worked on a number of real-time web applications centered around putting the power of Thrive's scientific instrumentation in the hands of both internal users focused on R&D and collaborators participating in Alpha programs. Below I highlight my contributions to Thrive's most recent project: the *CellAssist* imaging platform, but I've echoed elements of these contributions a number of times on various other applications. My contributions have frequently been made under significant time pressure with minimal resources. This has often required me to take on a leadership role and has made me an extremely effective contributor in small teams and startup environments.

- Handled the entire UI/UX design of the control application for Thrive's *CellAssist* instrument. This includes: concept & whiteboarding, conducting user interviews and creating sketch/InVision prototypes.
- Architected and implemented the *CellAssist* Control application itself (React/ Redux). This application runs as a PWA on a tablet and is served by a web server (Node JS) running on the instrument. The web server also provides a realtime (websockets) API, which exposes a set of instrument control services and a data storage/retrieval service.
- Significantly contributed to the database schema design (RethinkDB) as well as the organization of various back end services and their communication protocols (via RabbitMQ).
- Implemented a persistence service which provides a layer of encapsulation around the actual data organization in the persistence layer and exposes an intuitive, expressive querying mechanism that supports "live" queries (real-time) to all of Thrive's applications and backend services.
- Most recently, I've headed efforts to incorporate cloud resources into our infrastructure in order to facilitate a globally accessible reporting and collaboration platform built on top of the data collected by *CellAssist* instruments.

## **AmeriCU Credit Union, Rome NY** — *(Jr) Programmer & Data Analyst*

October 2015 - September 2016

- Developed and successfully deployed web applications used by business executives to keep organized and stay on the same page.
- Improved efficiency and aided in disaster recovery by leading an initiative to integrate version control (Git) into the corporate workflow.
- Developed in-house reporting to drive business needs.
- Was integrally involved in a data warehousing initiative meant to power new, in-house, business applications.

## **Suny Polytechnic, Utica NY** — *B.S. Computer Science*

Graduated May 2016 / GPA: 3.59

**Tools/ Frameworks:** Node JS, React, Redux, AWS, Terraform, Docker, Chrome Dev Tools, Linux, Git, RabbitMQ, SQL, RethinkDB

**Languages:** Javascript (ES2018), HTML5, CSS3, Ruby, Python, C, C++, Java, Lisp, Perl