

# Julius Zerwick

Software Engineer

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## SUMMARY

I am a full stack software engineer with a passion for collaborative tools, distributed systems, and cloud computing. I design, implement, and scale distributed systems and have multiple years of experience building software with proficiency in Ruby, Rails, Node, JavaScript, Git, Linux, and RESTful APIs.

## EXPERIENCE

### SpaceCraft (<https://spacecraft-repl.github.io/>)

Software Engineer

Brooklyn, NY

October 2018 - Present

- Co-created and deployed an open-source, real-time, collaborative REPL.
- Built a network architecture that scales to allow multiple users to collaborate in a private session.
- Developed real-time synchronization of input/output for collaborating users.
- Created a container architecture to isolate user sessions, prevent malicious attacks, and limit session resources.
- Implemented a reverse proxy to scale the application to dozens of concurrent users and sessions.
- Wrote a detailed case study (<https://spacecraft-repl.github.io/whitepaper>).

### Freelance Fullstack Engineer

Full Stack Engineer

Houston, TX

April 2017 - September 2018

- Built an extensive list of open-source contributions, including full stack web applications and a Ruby gem.

### SpaceCraft Proxy Server

- A reverse proxy server built from scratch using Node.js and the Docker API.
- Manages multiple user sessions, initializes containers, and forwards clients' requests to the appropriate container.

### Reaction

- List management productivity app with that allows users to create, delete, label, organize, and schedule cards and lists.

### Lander

- A Ruby gem that allows developers to easily log data structures for solving coding challenges.

## SKILLS & LANGUAGES

**Back-End:** Node.js, Express, Ruby, Rails, Sinatra, PostgreSQL, RESTful APIs

**Front-End:** JavaScript, React.js/Redux, HTML/CSS

**Other:** Git, Linux, Docker, WebSockets, Distributed Systems, Heroku

## EXTRACURRICULAR

### Technical Blog Writer

February 2018 - Present

I've written 5 articles on software engineering topics with ~2700 views.

## EDUCATION

### University of Texas at Austin

Austin, TX

September 2010 - May 2015

B.S. in Physics