

Julius Zerwick

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Software Engineer

SUMMARY

I am a full stack software engineer with a passion for collaborative tools, distributed systems, and cloud computing. I strive to write clean, scalable code 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 with Node, WebSockets, and Docker.
- Engineered both the front-end and back-end of the application to provide a terminal-like REPL experience to users.
- Strengthened the security of the application through container isolation techniques to prevent malicious code from affecting our host system.
- Handled multiple sessions and forwarding of requests through a reverse proxy, built with Node.js and the Docker API.
- Optimized network latency by removing the need to buffer outputs
- Wrote a detailed case study (<https://spacecraft-repl.github.io/whitepaper>).

Freelance Full Stack Engineer

Full Stack Engineer

Houston, TX

April 2017 - October 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 built with React.js 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