

# Nick Johnson

[njohnson7@pm.me](mailto:njohnson7@pm.me) | Software Engineer | San Francisco | [njohnson7.github.io](https://njohnson7.github.io)

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## Experience

### **SpaceCraft** - Co-Creator, Software Engineer

OCT 2018 - PRESENT

- Co-created an open-source, in-browser REPL (Read-Eval-Print-Loop) where users can collaborate together in real time, using Node.js, WebSockets, and Docker.
- Implemented state synchronization in the front-end REPL terminal, using CRDT and eventual consistency to resolve conflicts.
- Reduced network latency by removing the need to buffer outputs through server-side caching.
- Strengthened application security by isolating containers to prevent malicious user code from affecting the host system.
- Built a reverse proxy server from scratch to manage multiple user sessions and forward requests to the appropriate containers.
- Wrote a detailed case study: [spacecraft-repl.com/whitepaper](https://spacecraft-repl.com/whitepaper)

### **Full-Stack Development** - Software Engineer (Self-Employed)

OCT 2017 - JAN 2019

- Developed a variety of open-source, full-stack applications, including:
  - **Proxy Server**: a reverse proxy server built from scratch with Node.js, Bash, and the Docker API.
  - **Myflix**: a video subscription application like Netflix, built with Rails, RSpec, and TDD.
  - **Postit**: a social news and discussion application like Reddit, built with Rails, PostgreSQL, and JavaScript.
  - **Ticket Tracker**: an application that manages tickets by tracking issues and changes, built with Rails.

### **IT Specialist** - Self-Employed

JUL 2011 - JAN 2019

- Diagnosed, troubleshooted, and resolved software, hardware, and connectivity issues.

### **Launch School** - Content Developer

OCT 2017 - JAN 2018

- Developed curriculum content for an online mastery-based software engineering school.

## Skills

**Back-end:** Node.js, Ruby, Rails, SQL, RESTful APIs

**Front-end:** JavaScript, React, HTML/CSS

**Other:** Linux, Bash, Vim, Docker, DevOps

## Education

**Launch School** - Software Engineering

MAR 2016 - DEC 2018

**University of California, Irvine** - BA in Psychology

AUG 2008 - JUL 2011

**Konko Gakuen, Japan** - Exchange Student

MAR 2005 - MAR 2006

## Achievements

**Codewars Top-100 Ranking** - Completed 2000+ coding challenges: [codewars.com/users/njohnson7](https://codewars.com/users/njohnson7)

**Software Engineering Blog Writer** - Authored multiple articles with over 10,000 total views.