

Nick Johnson

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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

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, troubleshot, 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

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