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 over 10% 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 (Freelance)
SOFTWARE ENGINEER   *Mar 2016 – Jan 2019*
- Developed a wide range of full-stack applications for open-source projects.

Launch School
CONTENT DEVELOPER   *Oct 2017 – Jan 2018*
- Developed curriculum content for an online mastery-based software engineering school.

Projects

Myflix   *Rails, SQL*
A VIDEO SUBSCRIPTION APPLICATION, SIMILAR TO NETFLIX.

Postit   *Rails, SQL*
A SOCIAL NEWS AND DISCUSSION APPLICATION, SIMILAR TO REDDIT.

Ticket Tracker   *Rails, SQL*
AN APPLICATION THAT MANAGES TICKETS BY TRACKING ISSUES AND CHANGES. OPTIMIZED TICKET COUNT SQL QUERY BY REDUCING IT TO $O(1)$ FROM $O(N)$.

Todo List   *JavaScript*
A TODO-LIST APPLICATION BUILT FROM SCRATCH USING VANILLA JAVASCRIPT.

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*

Achievements

Codewars Top-100 Ranking, Completed over 2000 coding challenges.
Software Engineering Blog Writer, Authored multiple articles with over 10,000 total views.