

John (Jack) Brown

Phone: (509) 260-0671
Email: jack@brownjohnf.com

Web: www.brownjohnf.com
GitHub: @brownjohnf, @hasJackb
GitLab: @jack

Objective Full-stack software engineering position, with the opportunity to learn and grow while contributing to an exciting project working with cutting edge technology. Open-source a plus.

Technical Skills

- Primary:** Ruby, Docker, Rails, Sinatra, Bash/sh, SQL (MySQL/MariaDB), Redis
- Familiar:** JavaScript/node, Go, Rust
- Hobby:** Embedded C (AVR), G-Code (CNC Machining), \LaTeX , Haskell
- Tools:** MySQL/MariaDB, Redis, Elasticsearch, PostgreSQL, Jenkins, Vim, OpenStack, AWS, DigitalOcean, Ansible, Rancher, Deis, Terraform, Packer, CloudFormation

Strengths

- Self-directed and -motivated software engineer, DevOps engineer, and systems administrator
- Experienced building and managing complex, distributed systems and tools
- Works well in teams and groups as a participant, facilitator or leader
- Experience living abroad (Middle East, West Africa), including three years with the US Peace Corps, and is comfortable working across cultural divides
- Diverse studies, including classical languages and music, Western thought, mathematics and sciences
- Well-read, articulate individual capable of clear oral and written self-expression

Experience

Senior Software Engineer, resin.io, Seattle, WA May 2016—Present
<https://resin.io>

- Works to improve efficiency and speed from spec to deployment for a complex application deployed as Docker containers on clustered server pools
- Evaluates technologies for inclusion in the resin.io development pipeline
- Manages server infrastructure spanning multiple datacenters and VPS providers

Projects include:

- Oversee the migration from CoreOS's fleet cluster to Kubernetes clusters
- Maintain internal deployment tools to ensure safe, zero-downtime deploys

Software Development Engineer II, TUNE, Seattle, WA Jul 2014—May 2016
<https://www.tune.com>

- Functioned as a thought leader on a growing, post-acquisition team
- Designed and implements distributed, redundant, auditable systems for data collection, analysis, and storage
- Collaborated as part of a team of engineers developing features and services while ensuring the stability of legacy code
- Migrated code from legacy monolithic Rails app to an SOA gradually and sustainably as new features stood to benefit
- Worked with product teams and executive team members to develop technical strategy in the context of improving efficiency and cost-benefit

Projects include:

- DevOps work converting existing legacy applications to Docker containers, and starting new microservices as clusters of Docker containers
- International crawling, including management of hundreds of servers across 10+ countries
- Developing on-line analytics and intelligence features using a SOA ingesting downstream information from primary data acquisition and backed by Elastic-search
- Performing statistical analysis on datasets to evaluate prospective approaches for presenting data to consumers
- Experimental R&D, including building Docker containers running clusters of Tor processes

Software Engineer, MobileDevHQ, Seattle, WA Jan 2013—Jun 2014
<https://www.mobiledevhq.com> (now TUNE)

- Worked on a small (2-4) team of engineers innovating rapidly to compete in an emerging market
- Self-directed work developing and maintaining distributed systems and the asynchronous processing of hundreds of millions of datapoints daily
- Successfully contributed to positioning MobileDevHQ in the market, leading to an acquisition by TUNE (see above)

Founder/Lead Developer, Fadidi Digital Media, Seattle, WA Nov 2012—Dec 2014
<https://www.pcethiopia.org>

- Web Development company specializing in developing custom Ruby/Rails solutions for Peace Corps posts worldwide
- Closed business to focus on career and personal projects/growth

Lead Developer, PeaceCorps|Senegal, Dakar, Senegal Feb 2011—Nov 2012
<http://peacecorpssenegal.org>

- Worked with staff and Volunteers at Peace Corps|Senegal to develop project concepts, visualize initial design, prototype, test and release the DigitalPost web application
- As technical consultant, worked with staff to find appropriate solutions to technical challenges

Agroforestry Extension Agent, Peace Corps, Senegal Aug 2009—Jan 2011
<http://www.peacecorps.gov/volunteer/learn/wherepc/africa/senegal/>

Philosophy Teacher, Brummana HS, Brummana, Lebanon Sep 2008—Feb 2009
<http://bhs.edu.lb>

Academic

B.A. Liberal Arts, St. John's College|Annapolis, Annapolis, MD, May 2008

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