

Jack Brown

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Strengths

- Self-directed and motivated software engineer, DevOps engineer and systems administrator
- Experienced building and managing complex, large-scale distributed systems and tools in a variety of fields
- 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; comfortable working in diverse environments
- 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>

- SaaS business offering fleet management for IoT devices running Docker on embedded Linux
- 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
- Design and implementation of CI tooling to automate the continuous delivery of build artifacts
- Design and implement ZFS-based large capacity real-time remote caching for builds, allowing a ZFS pool to be mounted via NFS on build servers
- 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 Designing and implementing distributed, redundant, auditable systems for data collection, analysis and storage
- Worked with product teams and executive team members to develop technical strategy in the context of improving efficiency and cost-benefit
- Migrated code from legacy monolithic Rails app to an SOA gradually and sustainably as new features stood to benefit
- 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
- Developed on-line analytics and intelligence features using a SOA ingesting downstream information from primary data acquisition and backed by Elastic-search
- Performed 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

- 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
<https://www.peacecorps.gov/senegal/>

- 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>

Technical Skills

Languages: **ES6/Node, Ruby**, Bash/sh, SQL, Go, Rust, Embedded C (AVR), G-Code (CNC Machining), \LaTeX , Haskell
Tools: **Docker, PostgreSQL/MySQL/MariaDB**, Redis, Elasticsearch, Jenkins, ConcourseCI, Vagrant, Ansible, Rancher, Terraform, Packer, CloudFormation
Services: **AWS**, Packet.net, DigitalOcean, Hetzner, Resin.io

Academic

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

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