Jack Brown

Phone: (509) 260-0671 Email: jack@brownjohnf.com Web: www.brownjohnf.com GitHub: @brownjohnf GitLab: @jack

| Strengths | Self-directed and motivated software engineer, infrastructure engineer and systems administrator Proven history of working successfully in a remote-only environment Experience designing, building and operating complex, large-scale distribute systems and tools Works well in teams and groups as a leader, facilitator or participant Articulate individual capable of clear oral and written self-expression and professional communication Comfortable working across cultures, languages and time zones with experienc living and working abroad (Middle East, West Africa), including three years wit the US Peace Corps | d 8- e | | |
|------------|--|----------------------|--|--|
| Projects | Organizasum , Rust, https://gitlab.com/jack/organizasum Dedup photos by pixel-stream checksum; organize according to EXIF metadata. | | | |
| | Verto , Rust, https://gitlab.com/jack/verto Automatic semantic versioning for git projects using keywords in git commit subjects. | | | |
| | Slit , Go, https://github.com/brownjohnf/slit Bits of cut and awk mashed up with a cut-like interface. | | | |
| Experience | Software Engineer, Textio, Seattle, WA Jan 2019—Mar 202 https://textio.com | 0 | | |
| | Provided stable, efficient internal tooling for business-critical application deployment, security and reliability as part of the infrastructure team for a SaaS business selling an augmented writing platform to enhance recruiting and business communications. In conjunction with stakeholders such as developers and IT security, developed and disseminated best-practices to ensure security and reliability of deployed code Designed and implemented robust, scalable fault-tolerant systems such as customerfacing SFTP services and immutable, tamper-resistant source control backups Used tools like Docker to develop standardized build systems for cross-platform, low-dependency, consistent artifact generation Solved problems creatively to ensure minimal friction for end-users while ensuring stakeholders' specifications were met and deliverables arrived on schedule Started and led weekly team planning meetings, which improved coordination and visibility of team activity | | | |
| | Senior Software Engineer, Balena, Remote May 2016—Dec 201 https://www.balena.io | 8 | | |
| | Operated infrastructure and ran DevOps team for SaaS business offering an OS, buil pipeline and fleet management for IoT devices running Docker on embedded Linux. Worked to improve efficiency and speed from spec to deployment for a comple containerized application deployed to orchestrated hosts Managed server infrastructure spanning VPS and bare-metal providers, acros multiple datacenters; maintained internal deployment tools to ensure safe, zero downtime deploys Designed and implemented CI tooling to automate the continuous delivery or build artifacts, including support for builds on GNU/Linux, MacOS and Window | ex ss D- Df | | |

- Designed and implemented ZFS-based large-capacity real-time remote caching for builds, allowing a ZFS pool to be mounted via NFS on build servers and leveraging ZFS snapshots to provide high performance while minimizing cachepoisoning risk
- Oversaw the initial phases of migrating from a legacy container orchestration platform to Kubernetes

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

Brought knowledge and experience from MobileDevHQ to a growing, post-acquisition team working to integrate systems, migrate towards a service-oriented architecture, and improve performance for data collection, analysis and storage as part of the TUNE App Store Analytics division.

- First-adopter for the TUNE-wide migration to Docker; worked closely with operations to develop best practices and tooling for a smooth rollout.
- Developed on-line analytics and intelligence product features by ingesting downstream information from primary data acquisition in realtime, backed by Elasticsearch
- Performed statistical analysis on datasets to evaluate prospective approaches for presenting data to consumers in a meaningful and actionable format

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

Innovated rapidly to competitively position MobileDevHQ in the emerging App Store Optimization (ASO) market, leading to an acquisition by TUNE.

- Self-directed work developing and maintaining distributed systems for the asynchronous processing of hundreds of millions of datapoints daily, ingested from around the world across complex and low-reliability networks and hosting infrastructures
- Worked to continually improve performance and cost optimization for a Rails monolith serving all customer traffic

Founder/Lead Developer, Fadidi Digital Media, Seattle, WA Nov 2012-Dec 2014

| Lead Developer, PeaceCorps Senegal, Dakar, Senegal | Feb 2011—Nov 2012 |
|--|-------------------|
| https://www.peacecorps.gov/senegal/ | |

Agroforestry Extension Agent, Peace Corps, Senegal Aug 2009—Jan 2011 https://www.peacecorps.gov/senegal/

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

- Languages: Rust, Go, ES6/Node, Ruby, Bash/sh, SQL, Python, Embedded C (AVR), G-Code (CNC Machining)
 - Tools: Docker, PostgreSQL/MySQL/MariaDB, Redis, Elasticsearch, Jenkins, ConcourseCI, Vagrant, Ansible, Rancher, Terraform, Packer, CloudFormation, Vault, Kubernetes
 - Services: AWS, Packet.net, DigitalOcean, Hetzner, Resin.io, CircleCI, Git-Lab, GitHub, Linode, Heroku

May 2008

Academic B.A. Liberal Arts, St. John's College, Annapolis, MD https://sjc.edu/annapolis

typeset with LATEX

Technical

Skills