Randall W Stauner

Polyglot Software Developer, DevOps / Automation Engineer, Open Source Enthusiast

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Updated: November 20, 2021

github/rwstauner
cpan/rwstauner
clojars/rwstauner
docker hub/rwstauner
stackoverflow careers/rwstauner
linkedin/rwstauner

EXPERIENCE

Senior Software Engineer (Remote) - Guaranteed Rate

2021/04 - Present

- Worked on pre-existing Clojure jvm services implementing new features and fixing bugs.
- Developed new Clojure(Script) projects to run on node.js Lambdas.
- Added new metrics for monitoring, alerting, and research.
- Implemented data (EDN) based DSL system for rule-execution used in both clj and cljs apps.
- Implemented CI tests for libraries and applications including application tests, service dependencies, and Jenkins pipelines.
- Developed terraform modules to create graphs and alerts for grafana dashboards.
- Deployed existing services to new environments.

clojure clojurescript terraform

Senior Software Engineer (Remote) - Instructure

2016/09 - 2021/04

Worked on 5 Clojure services:

- Implemented core functionality of java interop with closed source vendor library (not easy).
- Added set of shared query APIs (8 different views) with honeysql (super fun).
- Added data migrations to deployment process to implement query optimizations.
- Refactored test suite from unit tests to request specs to increase confidence in dependency upgrades.
- Added metric collection, logging, and error handling middleware to provide consistency across services.

Created tools to increase productivity and lower barrier to entry for contributing:

- Built open source CLI in Go to provide a simple, consistent workflow for local development including service configuration options, automatic loading of secrets, and programmatic access to configuration.
- Utilized it in a variety of projects to enable coworkers of any team and role to get the projects up and running with ease (including CI build to reduce local dev breakage).
- Built Ruby based super-project to stitch together multiple projects and ease cross-service development.

Worked on a feature team for 2 years using Ruby and JavaScript to implement and fix bugs in customer facing features; Moved to infrastructure/tooling team to focus on core backend features, tooling, testing infrastructure, and project architecture:

- Added services to test suite to increase test coverage.
- Built development/testing environments to better mimic production.
- Created several linters and implemented test helpers for the QA team to use.
- Fixed an awful lot of flaky tests to improve build speed and reliability.
- Added features to C++ ruby gem to integrate app with Apache Pulsar.
- Wrote ansible, terraform, and Dockerfiles to fix and enhance deployments.

Wrote articles for internal blog about Clojure and Docker. Gave tech talks and demonstrations for Ruby, Sidekiq, Go, and several internal projects.

clojure go ruby docker

Software Development Engineer - Auction Edge

2009 - 2016 (Remote)
2004 - 2007

Work with remote team (video calls, group chat, pull requests / code reviews) to develop websites and REST APIs with Ruby and Rails.

Mentor junior developers and new hires on craft, collaboration, debugging, visibility, optimization, maintenance, and deployment.

Debug everything.

Use Perl, Python, Ruby, Node.js, Bash, and more to fix, integrate, and automate whatever is needed.

- Worked with two other developers to create, deploy, and maintain configurable Ruby on Rails websites customized and deployed for more than 80 customers.
  - GNU/Linux Server administration
  - PostgreSQL database administration (including PL/pgSQL)
  - Back end Ruby shared library code
  - Rails web sites
  - Front end HTML, CSS, and JavaScript (AJAX)
- Implemented a distributed ETL system.
  - Shipped GNU/Linux computers to customer locations.

SKILLS

- Clojure
- Go
- Ruby
- Perl
- Python
- Zsh
- VimL
- PostgreSQL
- Redis
- Docker
- Terraform
- AWS

EDUCATION

17 years work experience

Software Development
and GNU/Linux Administration

Coursera

École Polytechnique Fédérale de Lausanne (EPFL)

- Principles of Reactive Programming 2015/06
- Functional Programming Principles in Scala 2014/06

Westwood College of Technology

A.A.S. Computer Programming
2001/08 - 2002/12

- Wrote Perl software to query local databases (DB2, SQLServer, CSV files), massage data, and scan local file shares for photos and submit changes to server.
- Wrote Perl web services to receive customer data, save it to PostgreSQL database, and manage monitoring and updates for the satellite computers.
- Wrote Perl daemons to process queue of photos to import, monitor connections, pass messages for RPC, and initiate interactive shell sessions with the remotes.
- Wrote Javascript SPA to view connection statuses and deploy scriptable updates.

- Hacked old dev tools to integrate Sass compilation into a 10 year old Rails 1.0 project.
- Wrote Python Flask app to export data and table definitions from SQL Server and diff records to help another team maintain backward compatibility during a rewrite.
- Created Puppet modules by analyzing existing legacy production systems to migrate from physical servers to AWS for increased capacity.
- Wrote Ansible roles, Puppet modules, Hiera configs, Fabric tasks, and shell scripts to configure and maintain 20+ GNU/Linux AWS EC2 instances.

perl   python   ruby   javascript   bash   ansible   puppet   hiera   fabric   postgresql   aws   git
docker   vagrant   gimp   imagemagick

Core Contributor, Administrator (Volunteer) - MetaCPAN

2011 - 2016

metacpan.org (github) - Open source search API for the Comprehensive Perl Archive Network.

After contributing and participating on IRC for more than a year I was invited to join the admin team to help with issue management, deployment, system administration, and future design.

As team members live all over the world collaboration is done almost entirely via IRC and GitHub pull requests.

In the summer of 2014 I mentored an intern with the Free and Open Source Software Outreach Program for Women (now called Outreachy) and assisted another team member mentoring a student through Google Summer of Code.

perl   javascript   elasticsearch   puppet   hiera   vagrant   bash   nginx

Webmaster (Volunteer) - Groundwork Guatemala

Since 2009

Design and maintenance of GroundworkGuatemala.org

perl   bash   javascript   haxe   imagemagick   inkscape   gimp