

BUCK RYAN

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EXPERIENCE

Stitch Data - Contractor

Philadelphia, PA

August 2017 - present

- Authored several Singer “taps” - applications that pull data from third party APIs (eg. Xero, Jira, and Zendesk) and send them to Stitch
- Consulted on design of an integrated test framework for Singer taps

Senior Software Engineer

RJMetrics / Magento
Philadelphia, PA

May 2012 – June 2017

- Regularly planned and led projects to completion, with responsibilities such as:
 - Collaborating with other teams, CEO, and COO to gather requirements and design projects
 - Leading sprint planning and daily stand-ups
 - Identifying and resolving inefficiencies of project plan and team members
- Key designer of our microservice architecture and created best practices for database design, code structure and quality, and service APIs. Examples of services:
 - In 2017, was primary engineer of a service designed to ingest large number of small – medium size data sets and generate a set of predefined reports in HTML format. Was implemented in Clojure using SQLite and S3.
 - Led development of a service which ingests billions of rows daily from MySQL and writes the data to multiple locations. Service also launched, monitored, and balanced users across Redshift clusters and PostgreSQL instances
 - Author of a service responsible for encrypting and storing client database credentials.
- 2016-2017, was the lead infrastructure engineer in the absence of a formal DevOps team
 - Redesigned our deployment strategy from using AWS OpsWorks to using Jenkins Pipeline and Chef Server. This made deployments 85% faster and 90% more stable.
 - Developed a tool in Python which handled the encryption and storage of environment variables for all of our micro-services.
 - Launched a subset of our infrastructure in a European AWS region. This included setting up a site-to-site VPN (using OpenSwan) between the US and EU.
 - Led the initiative to begin using Terraform to manage our AWS infrastructure and later designed internal best-practices for using Terraform.
- Was a key contributor to the “Pipeline” product in 2015 (which later spun out as a separate company – Stitch Data), which streams data from many cloud and database sources into a Redshift data warehouse.
 - Wrote an Apache Spark application which pulled data from Kafka, destructured nested JSON records into flat table structures, and wrote back to Kafka (to be later sent into Redshift).
 - Deployed ZooKeeper, Kafka, and Spark clusters within AWS and created tooling for managing them.

- Was one of three principle maintainers of the legacy PHP codebase (apprx. 500K lines of code).
- Gave talks to educate team members on best practices for things like: database design, error handling in PHP, and how to be more efficient in bash.

EDUCATION

Drexel University, Philadelphia, PA
 B.S. Mathematics
 Computer Science Minor

September, 2006 - June, 2011
GPA – 3.84
 Magna cum Laude

SKILLS

	More Experience	Some Experience
Languages	Python, Clojure, Bash, PHP, Java	Javascript, C, C++, Haskell, Lua, Ruby
Databases	PostgreSQL, MySQL, Redshift, Redis	Mongo
Ops	Terraform, Chef, Jenkins	Ansible
Other	Kafka, ZooKeeper	Spark
Platforms	AWS	DigitalOcean

OPEN SOURCE

- Maintainer of powerline-shell (>3k GitHub stars): <https://github.com/banga/powerline-shell>
- Author of Farmhand (Clojure background processing library): <https://github.com/b-ryan/farmhand/>

LINKS

Homepage - buckryan.com
 GitHub - <https://github.com/b-ryan>