

# Adam Argo

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## Summary

Software engineer with a passion for distributed systems, low-latency web services, containers and cluster orchestration, and excellent customer experiences. I like working behind the scenes with massive scale.

## Professional Experience

### Appuri, Seattle, WA

#### Software Engineer

July 2015 – Present

Built an ETL pipeline and data operations platform with a horizontally scalable microservices architecture running in a Kubernetes cluster for a big data startup

- Designed and built a horizontally scalable ETL pipeline, mostly in Go, using Kafka, Redis, PostgreSQL and Amazon Redshift, capable of ingesting billions of events per day into Redshift data warehouses
- Designed and built a cron-like job scheduling system for running Docker containers on an Amazon ECS cluster, and building a logging pipeline for shipping container logs to customer UI in real-time
- Built a metrics pipeline for capturing statsd metrics both internally in an InfluxDB instance for use in the application as well as to a SaaS metrics provider (DataDog)
- Built a secondary data ingestion pipeline for creating a unified entity view (users/accounts) outside of Redshift, freeing up hours of Redshift cluster time every day
- Built an HTTP-based coarse-grained locking mechanism on top of Zookeeper for managing and prioritizing access to Redshift resources
- Helped lead transition from Amazon ECS to Kubernetes for running containers
- Feature work on front-end (Node.js/Knockout)
- Operationalized machine learning models

### zulily, Seattle, WA

#### Senior Software Engineer

October 2014 – July 2015

- Worked on the Personalization services team, delivering highly-scalable recommender systems to surface personalized content to millions of zulily members
- Wrote new services in Go and maintained existing Java services, deployed using Docker and Kubernetes in Google Cloud
- Lead developer on a second-generation content personalization platform
- Developed a split testing service, wrote MapReduce jobs for various ETL tasks
- Stood up an ELK cluster in Kubernetes for logging and saved the company thousands of dollars annually vs. Splunk

## **PayScale, Inc., Seattle, WA**

### **Senior Software Engineer**

**June 2014 – October 2014**

Software Engineer

March 2013 – May 2014

- Worked on PayScale's platform team, a two-person team that owned almost all non-customer facing systems, including the data, profile index, model, rules engine, and search
- Designed and implemented a new task processing system for PayScale's paid products, moving from a solution backed by SQL Server to one built on top of RabbitMQ and Redis
- Redesigned PayScale's internal service proxy/load balancing system, moving from a homegrown system to one using HAProxy
- A hack day project, building a real-time "hot call sheet" for customers actively visiting the site, was expedited into production because it lowered the time for salespeople to get a lead on the phone from five minutes to less than thirty seconds after receiving their contact information

## **Apperson Education Products, Renton, WA**

### **Software Developer**

**April 2009 – February 2013**

- Part of a two-person team that owned DataLink Connect, which connects to Apperson test scoring machines (TSMs) and other OMR scanners and enables users to analyze, manipulate, report, and export test data
- Developed a new firmware updater for Apperson TSMs, drastically reducing the number of "bricked" scanners and easing distribution of firmware to customers
- Responsible for integration of SEKONIC line of OMR scanners into DataLink Connect
- Designed and implemented web services and applications to accommodate a number of needs, including centralized software updates, file conversion from proprietary legacy formats, and a web-based application to manage TSM firmware

## **Github**

<https://github.com/ap0>

## **Other**

FAA sUAS rating (commercial drone pilot), expires January 2019

## **Education**

### **University of Washington**

**2007 – 2009**

*Bachelor of Science in Informatics, June 2009*