

Developed and launched Sift's Device Fingerprinting product, used today by some of the largest websites on the internet

• Led the backend migration of Sift's web console from a thick Rails app to an API-driven SPA using DropWizard

Quar	ntcast

SOFTWARE ENGINEER

SOFTWARE ENGINEER

- Built a real-time measurement platform that handles over 200,000 requests per second
- Helped scale a real-time ad bidding platform to 500,000 auctions per second
- · Developed features on a high-performance C++ webserver for web measurement and ad targeting

Twilio

ENGINEERING INTERN

• Built a distributed load testing tool for testing Twilio Client, which provides an API for building VoIP apps, with thousands of concurrent calls to determine the maximum number of calls a single server could support without audio degradation.

1

Work Experience

B.A. WITH HONORS IN COMPUTER SCIENCE

Splunk

Principal Engineer, Streaming Processing Service	2021-present
Tech lead for the Streaming Compute team at Splunk	
Building a petabyte-scale stream processing service for Splunk Cloud on Apache Flink	
Lyft	San Francisco, CA
Staff Engineer, Streaming Platform	2020
 Responsible for Lyft's Kubernetes-based Flink and Beam infrastructure and tooling Designed and developed autoscaling for Lyft's Flink pipelines Consulted on Flink pipelines that power Lyft's dynamic pricing, application logging, and real-time data lake 	
Senior Engineer, Streaming Platform	2018-2020
 Developing a real-time streaming platform on Apache Flink, supporting dynamic pricing, ETA, fraud, and other use-cas Led development on Lyft's Flink Kubernetes Operator, now open-source (https://github.com/lyft/flinkk8soperator) Contributed to Apache Beam's Flink runner, allowing our developers to write streaming pipelines in Python 	es across Lyft
Sift Science	San Francisco, CA
TECH LEAD, DATA INFRASTRUCTURE	2016-2018
 Leading a team of 10 software engineers and SREs with a responsibility for building the highly-scalable, reliable, and low powers Sift. Helped implement a replica HBase cluster with automated failover mechanism Integrated ciruit-breaking into HBase, producing a substantial reduction in downtime 	w-latency infrastructure that
TECH LEAD, WORKFLOWS	2016
• Led team of 5 to develop Sift's Workflows product, which allows our non-technical customers to define workflow rules to fraud events, without writing any code. Today most Sift customers rely on Workflows, making hundreds of automate	

PRINCIPAL ENGINEER, STREAMING PROCESSING SERVICE

Education

Wesleyan University

San Francisco, CA

Middletown, CT

May 2012

2014-2015

San Francisco, CA 2012-2014

San Francisco, CA

Summer 2011



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Washington University CS Department REU

RESEARCHER

• Designed and evaluated real-time scheduling algorithms for utility-aware non-preemtable, stochastic task sets using machine learning in C++. Worked under Dr. Chris Gill.

Instructional Media Services, Wesleyan University

PROGRAMMING MANAGER

• Maintained classroom multimedia technology and academic computing labs. Programmed and designed AMX-based integrated controllers and touch panels. Implemented a touchscreen-based classroom control system in ruby and javascript. Managed student programmers.

Skills_

- Languages: Java, Scala, JavaScript, Ruby, Rust, Python, C++
- Tools: Flink, Beam, Kubernetes, HBase, Kafka, ElasticSearch, PostgreSQL, Envoy, AWS, MapReduce, Spark
- Specialities: Distributed systems, Databases, ML Infrastructure, large-scale data processing

Talks	
How Lyft Built a Streaming Platform with Flink on Kubernetes	Virtual Livestream
FLINK FORWARD SF	April 2020
How Lyft Built a Streaming Data Platform on Kubernetes	Virtual Livestream
Strata San Jose 2020	March 2020
Running Flink and Beam on Kubernetes	Las Vegas, NV
ApacheCon North America 2019	September 2019
Stream Processing at Lyft	San Francisco, CA
Scale By The Bay 2018	November 2018
Reliable Machine Learning on HBase	Seattle, WA
Applied Machine Learning @ Scale Meetup	July 2017
Highly-Available HBase	Mountain View, CA
HBASECON 2017	May 2017
API-driven development at Sift Science	San Francisco, CA
API Craft Meetup	October 2014

Publications

The struggle for safety: effectiveness of caterpillar defenses against bird predation OIKOS

Scalable Utility Aware Scheduling Heuristics for Real-time Tasks with Stochastic Non-preemptive Execution Intervals

23RD EUROMICRO CONFERENCE ON REAL-TIME SYSTEMS

2

2015

2011

Summer 2010

Middletown, CT

2008-2012