CHRISTOPHER J. BURESCH

Preferred Name: Cj ⋄ he/him ⋄ Senior Software Engineer ⋄ Seattle, WA

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OBJECTIVE

Experienced software engineer with a focus on storage, distributed platform and infrastructure systems. Excited to design and implement scalable solutions for handling large amounts of data with commitment to delivering high-performing and reliable services. Ideally my next role would have leadership opportunities in the IC route.

SKILLS

Proficient Languages:	Scala, Java, Python, C#
Relevant Experience:	Scalding / Hadoop MapReduce, HDFS, Airflow, Docker, K8s, Azure/GCP/AWS, gRPC/thrift/protobuf, Bazel, Puppet, Terraform
Learning Languages:	Rust, Go

EXPERIENCE

Twitter, Inc. - Senior Software Engineer　　　　　　　　　　　　　Dec 2018 - Nov 2022
Blobstore (Distributed Object Storage),　　　　　　　　　　　　　　　　　　*Seattle, WA*

As a team of 8 we stored 70PB of Twitter's public and private data in an on-prem multi-tenant multi-datacenter distributed key-value system. During my time on the team I owned the hardware health, all service automation, monitoring, tooling and deployments as well as custodial services and processes as well as producing feature work.

Selected Accomplishments

- Developed a chargeback model and automation to give customers daily resource cost across storage class, data locality and replication factor.
- Developed a topology-aware locking service to ensure operation actors could operate independently without affecting service health. This presented other opportunities we were able to exploit like no-touch automated deployments and hardware lifecycle automation that removed developer weeks of operation toil and increased deployments from monthly to weekly.
- Wrote compliance automation for kernel and firmware updates using Airflow as an orchestration engine. Rolls 8k machines across multiple datacenters in less than 30 days with no manual intervention and negligible service impact.
- Developed anti-entropy services and tooling to process large metadata dumps (billions of keys) to multi-instance workers to ensure data integrity.
- Migrated multiple services from baremetal to Aurora Mesos compute clusters to ease operational burden and to improve developer velocity and service reliability.
- Handled service monitoring and tooling, system health, system config, loadtesting, capacity planning and oncall.

Microsoft Corporation - Software Engineer　　　　　　　　　　　　　Aug 2015 - Nov 2018
Dynamics　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Seattle, WA*

Worked remote to a small Switzerland-based follow-the-sun cloud infrastructure team tasked with managing the operational health of a Microsoft Social Engagement product's backend. Later switched to a backend product team developing an account management api for Dynamics CRM.

EDUCATION

Bachelor of Science, Computer Science   2011 - 2015
Gonzaga University   *Spokane, WA*

Clubs and Activities

Men's Rowing, Div. 1 *2011-12*	ACM ICPC, PNW *2012, '13, '14*
Computer Science Club *2012-15*	Math Club *2013-15*
Cycling Club *2013-15*	WSU Hackathon *2015*

Achievements

3rd On-Site, ACM ICPC (PNW) *2013, 2014*

LEADERSHIP

- Mentored new grads and interns with weekly 1:1's and adhoc sessions to help them ramp up into Twitter Engineering!

- Ambassador for Twitter Seattle 2021-2022. Responsible for planning events, creating opportunities for colleagues to socialize, assisting onsite operations management.

EXTRA-CURRICULAR ACTIVITIES

- Avid Mountain Climber! Summited Mt. Baker, Mt. Shuksan, and Mt. Hood.

- 3d Printing enthusiast! I solve my everyday problems with plastic.

- I play tabletop, RPG and video games!