

Cj Buresch

cj@csubj.io ◇ [linkedin/csubj](https://www.linkedin.com/company/csubj) ◇ [github/csubj](https://github.com/csubj)

Senior Software Engineer ◇ Platform, Storage, Infrastructure
he/him ◇ Seattle, WA

Skills

Languages: Go, Python, Scala, Typescript

Relevant Technologies: Scalding (MapReduce), Airflow, Docker, K8s, Azure/GCP/AWS, gRPC, Bazel, Terraform

Experience

Senior Software Engineer

July 2023 - Present

Zillow Group, Inc.

Seattle, WA

Developing a self-service compute platform for 300+ engineers. In a team of 3 we own observability, deployment pipelines, tooling and automation, cloud infrastructure and networking for our client teams.

- King County Search and Rescue Team member since 2024! "So that others may live..."
- Avid mountain climber and adventure traveler! Summited Mt. Baker, Mt. Shuksan, and Mt. Hood; hiked the Salkantay Trail in Peru!
- 3d Printing enthusiast! I solve my everyday problems with plastic.

Founder

April 2023 - Present

hcf labs LLC

Seattle, WA

Early stage startup developing consumer apps. TechStack: Go/Python with Bazel, PostgreSQL, AWS, Typescript + NextJS, Terraform.

Senior Software Engineer

Dec 2018 - Nov 2022

Twitter, Inc. - Blobstore (Distributed KV Object Storage)

Seattle, WA

As a team of 9, we served over 70PB at 100M requests per day of user data in an on-prem, multi-datacenter, eventually consistent distributed system developed in-house. As the infrastructure lead, I oversaw 8,000 physical machines, compliance and chargeback reporting, hardware provisioning and automation, observability, tooling, deployments, anti-entropy services, and delivered service features.

Accomplishments

- Developed and automated chargeback reporting for customer data, transforming a manual and annual process into a daily automated metric covering network, API usage, storage class, and data locality charges.
 - Customers could now make informed decisions and assess how service changes impact cost.
 - Helped the team prioritize features to help teams improve performance and cut costs like allowing customers to choose replica count per dataset or which datacenter to write to.
- Developed a state-aware locking service that would approve operations on the dataset allowing operators to work safely and independently without impacting service health or causing downtime.
 - This enabled no-touch deployments and hardware failure remediation, saving weeks of developer operational toil annually.
 - Oncall pages reduced from 90/wk to 4-5/wk
 - Deployment frequency increased from several times a quarter to weekly for stateful services and twice a week for stateless.
- Compliance automation rolled 8k hosts in less than 25 days with no manual intervention and negligible service impact. As a result Blobstore was consistently in the top 5 of patched fleets across the company.

- Implemented anti-entropy services to scan large metadata dumps, billions of keys processed via MapReduce fed a key-list to repair workers to patch production datasets every week.
- Migrated stateless services from baremetal to Aurora Mesos compute to ease operational burden, improve developer velocity and service reliability as well as cut \$100k from annual COGS.

Education _____

Bachelor of Science, Computer Science
Gonzaga University, Spokane WA

Clubs and Activities

Computer Science Club	ACM ICPC, PNW	3rd On-Site two years running
Men’s Rowing, Div. 1	Math Club	
Cycling Club	WSU Hackathon	

Leadership _____

- Mentored two cohorts of new grads and interns with weekly 1:1’s, adhoc sessions and code reviews to help them ramp up into Twitter Engineering!
- Ambassador for Twitter Seattle 2021-2022. Responsible for planning events, creating opportunities for colleagues to socialize in a hybrid environment, as well as assisting onsite operations management.

Extra-Curricular Activities _____

- King County Search and Rescue Team member since 2024! ”So that others may live!”
- Avid mountain climber and adventure traveler! Summited Mt. Baker, Mt. Shuksan, and Mt. Hood; hiked the Salkantay Trail in Peru!
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