

Bree LaPointe

Senior Software Engineer

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WORK EXPERIENCE

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Software Engineer

Dec 2023 - Present

Qualtrics

Senior Software Engineer, Team Lead

May 2022 - Dec 2023

- Optimized a Go application to increase consumption rate from Kafka by 340%, costing half the engineering effort of the proposed rewrite.
- Spearheaded AWS asset replication tooling, sparing 9 teams from duplicating work relocating up to 7 AWS technologies each.
- Mentored 2 intern, 2 new grad, and 4 mid-level engineers on operational tools, best practices for maintainable software, and career development.
- Founded the in-house standard system to continuously verify 16 teams' compliance with disaster recovery requirements.
- Created automated release test suites for 11 services, which catches 10 would-be customer facing bugs per month on average.

Software Engineer II

Oct 2019 - May 2022

- Scripted no-downtime database reconfiguration, which was leveraged by 3 teams to update 168 instances.
- Automated infrastructure patching for 30 microservices and 25 database clusters by creating a modular and testable Bash script framework.
- Administered on-call training, including 6 chaos tests gamedays across 5 systems.

Software Engineer I

Feb 2018 - Oct 2019

- Created custom Python tooling to create, increment, restore, and check for MongoDB database backups for standalone, replicated, and sharded deployments without customer impact, and has been the in-house standard for 21 teams for 4 years.
- Decreased backend service's annual outages by 91% and reduced hardware costs by 40% by selecting, training owners on, and migrating without downtime to a different datastore.

EDUCATION

Wake Forest University

Master of Science in Computer Science - 3.88/4.00 GPA

SKILLS

- Languages: Go (Golang), Bash, Python3
- Platforms: Docker, Hashicorp, Linux/Unix, AWS, REST, Microservices, Git
- Datastores: MongoDB, Redis, S3, Couchbase, DynamoDB