Bree LaPointe

Senior Software Engineer

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Work Experience

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Senior Software Engineer May 2025 - Present

- Cut new PostgreSQL major version support development cost from 8 weeks to 1 week.
- Reduced point-in-time-recovery restore failure volume 60% and restore runtime up to 80% with dynamic tuning.

Software Engineer Dec 2023 - May 2025

- Crafted PostgreSQL low-downtime migrations and in-place major version upgrades.

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

- Automated infrastructure patching for 30 microservices and 25 database clusters by creating a modular and testable Bash script framework.

Software Engineer I Feb 2018 - Oct 2019

- Founded Python tookit for full and incremental MongoDB backups, supporting partitioned deployments. The in-house standard for 21 teams.
- Decreased internal service's annual outages by 91% and hardware costs by 40% via database migration. Scoped alternatives, projected costs, and designed cutover.

Education

Wake Forest University

Master of Science in Computer Science - 3.88/4.00 GPA

Skills

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