

# Bree LaPointe

Senior Software Engineer

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## WORK EXPERIENCE

### Qualtrics

Senior Software Engineer, Team Lead

May 2022 - Present

- Mentored entry and mid-level engineers on stability, clean code, and distributed systems.
- Hosted engineering book and white paper clubs for continuous improvement and cross-team experience sharing for 2 years.
- Recovered 98% of data lost in critical incident via coordinating cross team efforts and dissecting native database operation logs.

Software Engineer II

Oct 2019 - May 2022

- Developed and owned highly available and reliable data storage and operational tooling.
- Mentored 2 interns, 2 new hires, and 3 mid-level cross team engineers on operational tools, maintainable software, and career development.
- Genericized AWS asset management tooling ahead of company-wide mass migration initiative.
- Championed disaster recovery by supporting training runs with documentation, tools, and live support across teams and enforced continuous compliance for 17 database clusters with monitoring and alerting.
- Lent expertise owning MongoDB across teams by advising on configuration and data models and genericizing disaster recovery tooling for 21 teams.

Software Engineer I

Feb 2018 - Oct 2019

- Automated no-downtime system patching for 30 services and 25 database clusters by creating a modular and testable scripting framework.
- Raised backend service's availability to 99.99% and reduced hardware costs by 40% by selecting, training team on, and live migrating to a different datastore.

## EDUCATION

### Wake Forest University

Master of Science in Computer Science - 3.88/4.00

Dec 2017

### High Point University

Bachelor of Arts in Computer Science - 3.91/4.00

Dec 2015

## PUBLICATIONS

**Arabidopsis thaliana computationally-generated next-state gene interaction models**

June 2018

- Refactored to correct bugs and improve efficiency by orders of magnitude

## SKILLS

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