

Elizabeth Thursby

Software Engineer | Lead DevOps Engineer

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SUMMARY

Software Engineer with deep expertise in cloud infrastructure and full stack development. Passionate about building efficient, affordable systems, from securing AWS environments and automating deployments to delivering polished React and Node.js applications.

SKILLS

Languages & Frameworks	JavaScript (ES6+), TypeScript, Node.js, React, Express, C#, .NET, Bash, PowerShell, HTML5, CSS3
Cloud & Infrastructure	AWS (EC2, RDS, S3, IAM), Terraform, CloudFormation, GitHub Actions, Jenkins
Data & Monitoring	PostgreSQL, MySQL, Redis, DynamoDB, ELK Stack, New Relic, CloudWatch

EXPERIENCE

Lead DevOps Engineer - PERQ

11/2025 - Present

Indianapolis, IN (Remote)

- Spearheaded the AI development process across the company, establishing a shared GitHub org, project templates, documentation standards, and CI validation pipelines to govern all internally built AI tools.
- Manage Jenkins pipelines for all builds and deployments across environments.
- Upgraded PostgreSQL from version 13 to 18 across environments using PowerShell and Node.js automation scripts.
- Encrypted all unencrypted RDS PostgreSQL databases, securing approximately 20 databases.
- Built an automated backup process for production websites, improving recovery reliability.
- Migrated AWS IAM user access keys to EC2 instance profiles using IAM roles, improving security posture and reducing credential management overhead.
- Upgraded Windows EC2 instances from Server 2019 to 2025 using CloudFormation.
- Built a React/TypeScript internal tool that replaced manual review of raw PostgreSQL query results with a visual, rule-based triage UI, reducing human error and making tier 4 client support significantly faster.
- Upgraded EBS volumes from gp2 to gp3, improving IOPS performance and reducing storage costs.

DevOps Engineer - Bloomerang

10/2021 - 10/2025

Indianapolis, IN (Remote)

- Joined as the founding DevOps engineer, building and growing the team from the ground up to 8 engineers.
- Consolidated fragmented CI/CD across environments (hardcoded PowerShell for production, Jenkins for QA) into a single GitHub Actions workflow, implementing Terraform automation and blue-green deployments and reducing future pipeline changes to one codebase.
- Rewrote deployment scripts to run concurrently across server types, cutting deploy time from approximately 3 hours to under 90 minutes.
- Automated full environment provisioning with Terraform, reducing setup from 2+ weeks of manual work to minutes.
- Developed and maintained Bash and PowerShell scripts integrating external APIs, streamlining operational tasks.
- Managed AWS infrastructure ensuring high availability across EC2, RDS, S3, and supporting services.
- Migrated services including RabbitMQ and Elasticsearch/Logstash from Windows to Linux servers, reducing licensing costs and improving reliability.
- Implemented monitoring solutions for Windows and Linux servers.
- Conducted vulnerability assessments and applied patches, contributing to successful SOC 2 compliance.
- Founded and led a biweekly DevOps meeting series, organizing project collaboration sessions, demos, and guest speakers.

Software Engineer - Bloomerang

02/2019 - 10/2021

Indianapolis, IN (Hybrid)

- Developed and deployed new CRM features using C# and React.
- Transitioned legacy ASP.NET Razor pages to React, modernizing the application interface.
- Trained and served as primary technical resource for a team of 5 offshore contractors, supporting onboarding and daily development work.
- Helped lead frontend Center of Practice meetings, facilitating knowledge sharing across the engineering org.

- Introduced product demos into the development cycle, accelerating feedback loops and reducing development time.
- Served as one of three frontend-focused engineers on a team of 10, owning the React layer of a CRM product used by thousands of nonprofits.

QA Engineer - Mx Technologies

09/2018 - 01/2019

Lehi, UT

- Took on junior software engineering tasks alongside QA duties, mentored by team leads and contributing bug fixes directly to Ruby on Rails and React codebases.
- Executed comprehensive testing of APIs and backend microservices, ensuring robustness and reliability.

Undergraduate Researcher - Pu Research Group, Indiana University

01/2015 - 09/2018

Indianapolis, IN

- Ran quantum chemistry calculations on remote supercomputers using Gaussian 09/13, computing optimized energy structures of creatine kinase via SSH and HPC queue systems.
- Wrote Bash, Python, and Perl scripts to process tens to thousands of Gaussian input files in bulk, automating edits, math operations, and data extraction that would have taken weeks manually.
- Contributed to a publication analyzing computational methods for molecular structure optimization.

EDUCATION

Bachelor of Arts in General Studies, Minors in Computer Science & Mathematics

2020

Indiana University

Certificate in Full Stack Web Development, MERN Stack Focus

2018

V School