Elizabeth Thursby

Software Engineer | Lead DevOps Engineer

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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