

CAITLIN ASH

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Computer Science master's student at DePaul University seeking Summer 2026 DevOps or Site Reliability Engineering internship. Experience building CI/CD automation with Docker and GitHub Actions, optimizing distributed systems for performance, and deploying containerized infrastructure. Strong programming background with focus on system reliability and operational automation.

DePaul University Chicago - Chicago, IL

Master of Science in Computer Science (In Progress) | Expected: Summer 2027

Relevant Coursework: Distributed Systems, Computer Systems, Data Structures & Algorithms

Washington University St. Louis - St. Louis, MO

Certificate in Full Stack Web Development | June 2023 - December 2024

Loyola University Chicago - Chicago, IL

Bachelor of Science in Psychology | August 2019 - May 2023 | *Dean's List*

TECHNICAL SKILLS

DevOps & Automation: Docker, CI/CD Pipelines, GitHub Actions, Docker Compose, Shell Scripting, Infrastructure Automation, Continuous Deployment

Site Reliability: Performance Optimization, Distributed Systems, Resource Management

Programming Languages: Java, JavaScript, Go, Bash

Infrastructure: Linux (Ubuntu), Virtual Machines, System Administration, Networking (TCP/IP)

Databases: PostgreSQL, MySQL

Backend Technologies: Node.js, Express.js, REST APIs

PROJECTS

Distributed File Retrieval System | Java, Linux, Distributed Systems, Performance Optimization | [GitHub](#)

- Designed and implemented distributed client-server system for concurrent document indexing and search
- Optimized distributed system achieving ~54 MB/s throughput through systematic profiling and bottleneck analysis; evaluated performance across deployment environments
- Built multi-threaded architecture with TCP/IP socket communication and concurrent connection handling
- Tested deployment on Linux VM; currently containerizing for distributed deployment

Automated CI/CD Pipeline & Deployment Infrastructure | Docker, CI/CD, GitHub Actions | [GitHub](#) | [Live Demo](#)

- Built multi-stage CI/CD pipeline with GitHub Actions automating testing, coverage reporting, and deployment
- Containerized full-stack application with Docker and orchestrated multi-container environment using Docker Compose
- Implemented automated testing infrastructure with 86% code coverage and artifact generation for quality gates
- Configured continuous deployment to Heroku with conditional logic deploying only from main branch after tests pass
- Architected multi-container setup with MySQL database, health checks, and volume persistence for production reliability