

# CAITLIN ASH

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

## PROFESSIONAL SUMMARY

Computer Science master's student seeking Summer 2026 Software Engineering internship specializing in backend systems and infrastructure. Currently building a distributed client-server system in Java and backend services with DevOps tooling in Go. Experience with Docker, CI/CD pipelines, and full-stack development.

## EDUCATION

### DePaul University Chicago - Chicago, IL

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

*Relevant Coursework: Distributed Systems, Data Structures & Algorithms, Computer Systems, Concepts of Programming Languages*

### 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

**Languages:** Java, Go, JavaScript

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

**DevOps & Tools:** Docker, Git, GitHub Actions, Linux, Maven

**Databases:** PostgreSQL, MySQL

**Cloud & Deployment:** Vercel, Heroku

**Testing:** JUnit, Jest

**Frameworks:** React.js, Next.js, TailwindCSS

## PROJECTS

### Distributed File Retrieval Engine | Java, Multi-threading, Socket Programming | [GitHub](#)

- Architected client-server system supporting concurrent document indexing and search across distributed clients
- Implemented dispatcher-worker thread pool pattern handling multiple simultaneous client connections
- Engineered thread-safe inverted index with synchronization primitives for concurrent operations
- Achieved ~54 MB/s indexing throughput across 2.0 GB document corpus using parallel multi-client architecture

### The Tech Blog | JavaScript, Node.js, Docker, CI/CD | [GitHub](#) | [Live Demo](#)

- Built full-stack blogging platform with user authentication, post creation, and commenting features
- Implemented CI/CD pipeline with GitHub Actions for automated testing and continuous Heroku deployment
- Containerized application with Docker for consistent development and deployment environments
- Designed RESTful API following MVC architecture with Sequelize ORM and MySQL database