

## Drew Short

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### SOFTWARE ENGINEER

Full-Stack Development — Platform Engineering — Distributed Systems

- *Full-stack software engineer* - 14+ years of experience with the entire software development lifecycle. Dedicated to the delivery of innovative solutions for today's problems, using tomorrow's tools.
- *Infrastructure and platform engineering expertise* - 6+ years years architecting, implementing, and maintaining cloud infrastructure using infrastructure as code, with deep experience in deployment automation, observability, and production system operations.
- *Strong troubleshooting and analysis skills* - Quick to analyze the root cause of issues and work towards both immediate and long term solutions.
- *Specialized in middle and backend system design* - Years of experience in validating, processing, and marshalling data across varied systems.

### COMPUTER SKILLS

**Languages:** Go, Python, HCL, Java, Kotlin, Groovy, SQL, YAML

**Infrastructure & Platform:** Kubernetes, Helm, Terraform, OpenTofu, Ansible, Docker, Podman, Nginx, HAProxy

**Observability & Monitoring:** Grafana, Prometheus, VictoriaMetrics, OpenTelemetry, Sentry

**Cloud Providers:** GCP, AWS, Azure

**CI/CD & Build Tools:** GitLab CI/CD, Jenkins, Concourse, Poetry, Maven, Gradle

**Frameworks & Libraries:** FastAPI, LangGraph, Spring Framework, Spring Boot, Spring Cloud Stream, Hibernate

**Testing:** pytest, Cucumber, JUnit, Spock

**Databases:** PostgreSQL, CockroachDB, MongoDB, MySQL, Oracle, SQLite

**Operating Systems:** Linux (Ubuntu, Debian, Fedora, RHEL, Alpine), MacOS, Windows

### EXPERIENCE

**Platform Architecture**

**Platform Engineering Team Lead**

**Senior Platform Engineer**

Minneapolis, MN

**Flywheel Exchange, LLC**

2020 - 2025 (5 years, 9 months)

- Facilitated team operations including planning, retrospectives, postmortems, game-days, and knowledge-sharing sessions.
- Developed automated deployment system using GitLab CI/CD, Terraform, Helm, and Kubernetes to replace manual Bash + Docker Compose processes.
- Led development to centralize customer deployment log collection using GCP Stackdriver, AWS Cloudwatch, or customer-supplied infrastructure.
- Architected and led development of automated deployment upgrade tooling to manage 120+ customer deployments, reducing average upgrade time from 2 months to under 1 week.
- Designed and implemented infrastructure for an internal AI Agent ReAct stack integrating AWS Bedrock with a LangGraph-based service on AWS ECS.
- Mentored platform engineers, software engineers, and interns on Terraform, Helm, Kubernetes, Python, Golang, scalable code patterns, and observability tooling.

## Résumé

**Senior Software Engineer**  
Eden Prairie, MN

**Optum**  
2017 - 2020 (2 years, 6 months)  
(Contracted) 2016 - 2017 (7 months)

- Replaced slow legacy REST API services with horizontally scaling architecture and guided teams through the migration process.
- Led efforts to triage critical security issues in production Spring services, taking accountability for identified issues and assigning security work to engineers.
- Developed automated tooling to route security issues to domain teams, reducing response time and missed assignments.
- Led conversion from legacy in-line JSON deserialization to Jackson-based DTOs for API and message queue communication across team services.
- Improved code generation for an internal Spring framework, significantly reducing configuration overhead for message-based workflows.

**Software Engineer**  
Hopkins, MN

**Cargill Incorporated, Risk Management**  
2013 - 2016 (3 years, 6 months)

- Led a small (3-5 person) team to retool and support a migration system in preparation of an extended cut-over testing period.
- Architected a Python REST API to integrate an Oracle data source with a third-party suite of back, middle and front office tools.
- Redesigned management system for '*Risk Products*', delivering improved control over the individual components.
- Maintained and upgraded a 10+ year Spring web application, modernizing the interface, improving the backend, and migrating to modern build tools.

**Software Engineer Intern**  
Mankato, MN

(Under Contract To) **FPX LLC**  
2011 - 2013 (2 years, 1 month)

- Expanded a REST API and implemented continuous integration testing.
- Developed a DSL and tooling for internal auditing, testing, and reporting.
- Developed a '*playback*' system that facilitated debugging of client systems.

## EDUCATION

*Bachelor of Science, IT* (May 2013)  
Software Engineering & Ethics

Minnesota State University  
Mankato, MN

## NOTABLE ACHIEVEMENTS

- ***Eagle Scout***
- BSA Leadership Instructor

**2007**  
Summers 2004-2007

## REFERENCES

Available Upon Request