

# ALEX POGUE

## SOFTWARE ENGINEER

alex@epogue.com | (507)-319-5497

### TECHNICAL SKILLS

---

- Languages: Python, Java, Swift (iOS), C, C++, and JavaScript
- Specialties: DevOps monitoring, automation, releases, API development and usage, full stack development
- GitHub: [github.com/alexpogue](https://github.com/alexpogue)
- Portfolio: [alexpogue.com/portfolio](https://alexpogue.com/portfolio)

### PROFESSIONAL EXPERIENCE

---

#### IBM

**Rochester, MN**

*Senior Software Engineer, IBM Cloud Pak for Data (CP4D) SRE and Backup/Restore Team*

*August 2019 - February 2021*

- Create Jenkins build automation and design initial release process for backup/restore tooling in CP4D, a data and AI platform which unifies data and enables complex analysis.
- Execute two releases - security scan, approve open source, sanity test, write/publish docs.
- Automate build, scan, and delivery in Jenkins to enable push-button release.
- Spearhead Jenkins adoption to improve greater SRE team's automation processes.
- Write, maintain, and update Jenkins jobs to run JMeter workloads for 7 CP4D plugins to validate functionality and performance between releases.

*Software Engineer / Team Lead, IBM Streaming Analytics DevOps Team*

*June 2015 - August 2019*

- Provisioned, monitored, and troubleshot thousands of backend SoftLayer VM systems in multiple geographies for Streaming Analytics, IBM's cloud service for processing data in motion.
- Designed, implemented, and maintained entire monitoring infrastructure pipeline: Metrics database → New Relic → PagerDuty → ServiceNow → Slack
- Orchestrated PagerDuty schedule and configuration for DevOps team.
- Provided PagerDuty coverage, wrote runbooks, implemented automated resolution, and resolved root cause to prevent alerts from ever firing again.
- Collaborated in a multi-month transition from VM-based backend to Kubernetes.
- Wrote and maintained Ansible deployment scripts to deploy to Kubernetes.
- Composed customer-facing tutorial articles for integrating Streaming Analytics with other cloud services via REST API, JDBC, and Kafka messaging (see [alexpogue.com/articles](https://alexpogue.com/articles)).

#### Garmin

**Olathe, KS**

*Software Engineer Intern, Mapping Tools Team*

*May 2014 - June 2014*

- Extended capability of a legacy C++ application to import 79 new map file types.
- Integrated an open source geospatial library into existing legacy code.
- Collaborated with internal users to get feedback on usability and workflow.
- Devised and followed a Kanban workflow amidst unspecified methodologies.

#### Workiva

**Ames, IA**

*Software Engineer Intern, Front End Development Team*

*May 2013 - October 2013*

- Developed the Adobe Flex front end of a cloud-based platform in ActionScript 3.
- Engaged in effective agile development on a team practicing Kanban.
- Completed five development tickets during a two-week long architectural change.
- Quickly learned new development tools: Git, JIRA, Bamboo, Charles web proxy.

### EDUCATION

---

#### Iowa State University

*Bachelor of Science in Computer Science*

**Ames, IA**

*May 2015*