# ALEX POGUE
## SOFTWARE ENGINEER

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

## TECHNICAL SKILLS

- Languages: Python, JavaScript (Vue/React), Java, Swift (iOS), C, and C++
- Specialties: DevOps monitoring and automation, releases, API development and usage, full stack development
- GitHub: github.com/alexpogue    |    Website: alexpogue.com

## PROFESSIONAL EXPERIENCE

### Mayo Clinic                                                                                   Rochester, MN
*Software Engineer, AI/ML Full Stack Development Team*                          *November 2021 - Current*

- Innovate and bulletproof multiple early-stage research projects from ideation to clinical trials.
- Maintain 6 Azure DevOps CI/CD pipelines to build/test/deploy docker images to a registry.
- Create push-button release process for AGPS AI asthma prediction tool to a Kubernetes VM.
- Collaborate with researchers, developers, and stakeholders to add features such as memcache (30x performance increase), Epic OAuth login, and critical bug fixes in research code.
- Improve code quality by creating test-driven development framework, step-through debugging process, and automated unit test runs in an otherwise non-technically complete project.

### IBM                                                                                           Rochester, MN
*Senior Software Engineer, Cloud Pak for Data (CP4D) SRE Backup/Restore Team*   *August 2019 - February 2021*

- Developed Jenkins build automation and release process for CP4D backup/restore tooling.
- Automated build, scan, and delivery in Jenkins to enable push-button release.
- Executed two releases - security scan, approve open source, sanity test, write/publish docs.
- Spearheaded Jenkins adoption to improve greater SRE team's automation processes.
- Managed JMeter test Jenkins jobs for 7 CP4D plugins to verify performance between releases.

*Software Engineer / Team Lead, Streaming Analytics DevOps Team*                 *June 2015 - August 2019*

- Oversaw thousands of VM systems across 3 regions for IBM's Streaming Analytics cloud service.
- Designed, implemented, and maintained entire monitoring infrastructure pipeline:
  Metrics database → New Relic → PagerDuty → ServiceNow → Slack
- Orchestrated PagerDuty schedule, wrote runbooks, automated resolution, resolved root cause.
- 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 (alexpogue.com/articles).

### Garmin                                                                                        Olathe, KS
*Software Engineer Intern, Mapping Tools Team*                                   *May 2014 - August 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.

## EDUCATION

### Iowa State University                                                                         Ames, IA
*Bachelor of Science in Computer Science*                                               *May 2015*