

# Jonah Bull

Minneapolis, MN • (651) 373-1977  
jonahbull@gmail.com • linkedin.com/in/jonahbull • github.com/jonahbull

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## Experience

- **Elastic** **Distributed**  
*Senior Software Engineer* *4/2018 – Present*
    - Maintain and improve a CI agent provisioner written in Go and deployed on Kubernetes.
    - Maintain and improve a Python application for specifying and building CI agent images for EC2, GCE and GKE environments.
    - Administer a variety of virtual and physical servers in development and production environments, using Ansible for configuration management.
    - Use Terraform to maintain and improve CI infrastructure across several different cloud providers serving engineers across Elastic.
    - Migrate Elastic's CI workloads off of Jenkins and on to a more secure, scalable platform based on Buildkite.
  - **Catalyst Repository Systems** **Denver, CO**  
*Software Engineer* *3/2014 – 4/2018*
    - Maintain and improve a Python-based data pipeline for creating graph databases using MarkLogic, Redis, and LMDB.
    - Maintain and improve Python applications for orchestration and invocation of machine learning services using Flask, Elasticsearch, and RabbitMQ.
    - Maintain and improve a custom application monitoring system using InfluxDB, Grafana, and Python.
    - Improve performance for existing applications through profiling and system analysis, using the cProfile module and common Linux performance observability tools.
  - **Serials Solutions/ProQuest** **Seattle, WA**  
*Software Engineer/System Administrator* *10/2010 – 3/2014*
    - Maintain and improve Java applications for ingesting content into an index containing billions of documents.
    - Write tools in Java, Python, XQuery and shell script for acquiring and processing content in a variety of formats (MARC, XML, CSV, Excel, plain text).
    - Develop a Java-based RESTful API using Tomcat, Hibernate, MySQL, Spring and Jersey.
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## Core Technical Skills

**Languages:** Python, Go, Java, shell script, SQL,  $\LaTeX$

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## Education

- **University of Washington** **Seattle, WA**  
*Master of Library and Information Science*
- **Macalester College** **St. Paul, MN**  
*Bachelor of Arts*