

# Kaleb Coberly

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## Summary

Backend software/data engineer with a background in research and analysis. Builds and deploys reliable tools, analytics, and pipelines. Supports users and writes documentation. Improves systems with a focus on clarity, maintainability, and impact. Prioritizes data quality, methodological validity, and meaningful results. Develops pipelines, tooling, documentation, and analytics that help others get reliable answers from data.

## Skills

- Programming & Scripting: Python, R, Bash, SQL, NoSQL
- DevOps & Tooling: Git, Docker, GitHub Actions, Jenkins, CI/CD, Python packaging, debugging, testing frameworks
- Data Engineering: ETL pipelines, data cleaning, diagnostics, versioning, reporting
- Analysis & Visualization: Pandas, NumPy, ggplot2, Excel
- Documentation & Support: Sphinx, reStructuredText, user training, contributor onboarding, issue triage
- Platforms & Environments: Linux, MacOS, Windows, HPC (Slurm), Bitbucket/Stash, VS Code, JIRA, ElasticSearch, MySQL

## Experience

### Volunteer Software Engineer, Bellingham Food Bank, Nov 2024–Present

- Built and deployed a tool to automate delivery planning, reducing staff workload by several hours each week. See <https://cricketsandcomb.org/#projects>
- Designed modular, CLI-based system integrating into staff workflows; led incremental rollout and training.
- Wrote complete documentation for non-technical users; maintain ongoing support based on user feedback.
- Implemented CI/CD, local + Docker testing, and reusable GitHub Actions workflows with high test coverage.
- Released as an open-source project; maintain infrastructure to support contributors and mentorship.

### **Research Engineer, Central Computation (GBD), IHME, Nov 2022–Oct 2024**

- Developed and maintained internal Python tools for data modeling, versioning, access, and dev workflows.
- Contributed to a large in-house Python ecosystem: features, bugfixes, and major test coverage increases.
- Maintained Jenkins builds across ~100 packages; debugged issues across DBs, APIs, Docker, and HPC.
- Directly supported research teams: investigated failed model runs, data access issues, and tooling gaps.
- Analyzed system usage and tool performance via Elasticsearch; documented software via Sphinx.

### **Data Analyst, IHME – Pandemics Team, Nov 2021–Dec 2022**

- Owned multiple data pipelines for COVID-19 production and reporting; reduced key runtime by 65%.
- Refactored vaccine and booster models for maintainability and extensibility.
- Built diagnostic tools and automated reporting for data QC; led early Slurm transition for production jobs.
- Extracted and processed national data (e.g. UK COVID cases) into standardized, versioned output.

### **Education**

B.S., Data Management and Data Analytics – Western Governors University, 2021

B.A., Critical Studies and Pedagogy – The Evergreen State College, 2008

### **Certifications**

- Quantum Computing (Qiskit & Python) – Udemy, Apr 2025
- Mathematics for ML & Data Science – DeepLearning.AI, Jan 2025
- Oracle Database SQL Certified Associate – Oracle, Jul 2020
- CompTIA A+, Network+, Project+ – CompTIA, 2019–2020