

Tim Whitson

twhitsn@gmail.com | (812) 325-5891 | [linkedin.com/in/tim-whitson](https://www.linkedin.com/in/tim-whitson)

Work Experience

Rebellion Defense

Software Engineer - Infrastructure

Remote

Nov 2022 - Present

- Led the design and implementation of a new deployment system, supervising a team of senior engineers and reducing deployment time from days to minutes
- Enhanced organizational processes (design, documentation, mentoring), reducing rework and improving productivity across the team, organization, and company
- Implemented new testing strategy and pipeline across multiple teams, catching innumerable bugs before reaching production and improving reliability
- Worked with government clients to deploy mission-critical applications in secure environments, contributing to the overall reliability and security of systems

Key Tech: Ansible, Bash, Github, Helm, Kubernetes, Linux Systems, Pantsbuild, Python, SQL, Terraform

Facebook / Meta

Production Engineer

Seattle, WA

Aug 2020 - Oct 2022

- Focused on high-availability, performance, and scalability within a distributed transactional store, ensuring reliability in production
- Automated deployment and testing workflows, reducing deployment and testing time by 50%, saving hundreds of engineering hours per year
- Developed dynamic container cluster configuration, reducing the amount of configuration by thousands of lines and improving scalability
- Scoped, roadmapped, and successfully managed an intern project to implement ephemeral clusters, optimizing computing resources and speeding up development, testing, and CI/CD pipelines

Key Tech: Bash, Buck2, Configurator (configuration as code), Conveyor (CI/CD), Linux Systems, Python, SQL, Testing (chaos, end-to-end, integration, performance), Tupperware (container orchestration)

Institute for Health Metrics and Evaluation

Software Engineer

Seattle, WA

May 2019 - Jul 2020

- Worked in a collaborative, cross-functional environment to address complex challenges and ensure reliable infrastructure for high-impact research
- Optimized research workflow and improved efficiency in handling large data sets
- Designed and implemented distributed tooling for high-performance computing

Key Tech: CSS, HTML, Javascript, Jenkins, Kubernetes, Python, R, SQL

Mosaic Data Science

Data Science Intern

Leesburg, VA

May 2018 - Aug 2018

- Provided simulation analysis for NASA's Management-by-Trajectory program
- Developed recommender system for 3PL client, including ETL, machine learning model, and API

Key Tech: Python, SQL

Indiana University

Research Assistant

Bloomington, IN

Jan 2017 - Aug 2017

Education

Indiana University

M.S. Data Science

Dec 2018

Indiana University

B.S. Informatics, Minor in Psychology

May 2017