Tim Whitson

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Work Experience

Rebellion Defense   Remote
Software Engineer - Infrastructure   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, Python, SQL, Terraform

Facebook / Meta   Seattle, WA
Production Engineer   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, Configerator (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   Seattle, WA
Software Engineer   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   Leesburg, VA
Data Science Intern   May 2018 - Aug 2018

Indiana University   Bloomington, IN
Research Assistant   Jan 2017 - Aug 2017

3rd Sheet, LLC   Bloomington, IN
Owner / Web and Mobile Developer   Jun 2011 - Jan 2016

82nd Airborne Division, US Army   US / Abroad
Infantryman   May 2005 - Apr 2009

Education

Indiana University   Dec 2018
M.S. Data Science

Indiana University   May 2017
B.S. Informatics, Minor in Psychology