

Tim Whitson

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Work Experience

Rebellion Defense

Software Engineer

Remote

Nov 2022 - Present

Working on a cross-functional team of Software and Cybersecurity Engineers, automating adversary emulation and integrating security testing into development pipelines for multiple high-stake government customers.

- **Tech:** Ansible, Bash, Github, Helm, Kubernetes, Linux Systems, Python, SQL, Terraform
- Led the design and implementation of a new deployment system, supervising a team of senior engineers, that reduced deployment time by 90%
- Drove improvement of organization processes, such as design, documentation, tasking and mentoring, resulting in less rework, streamlined task management, and productivity improvements

Facebook / Meta

Production Engineer

Seattle, WA

Aug 2020 - Oct 2022

Supported production of a distributed transactional store w/ high availability, performance, scale and throughput.

- **Tech:** Bash, Buck2, C++, Configurator (configuration as code), Conveyor (CI/CD), Linux Systems, Python, SQL, Testing (chaos, end-to-end, integration, performance), Tupperware (container orchestration)
- Reduced deployment and testing time by 50%, saving hundreds of engineering hours per year, by automating manual steps and improving tooling
- Automated configuration, reducing the total amount of configuration by thousands of lines and allowing for dynamic container cluster generation
- Scoped, roadmapped, and successfully managed intern project - ephemeral containers - freeing up computing resources and speeding up development, testing, and CI/CD pipeline

Institute for Health Metrics and Evaluation

Software Engineer

Seattle, WA

May 2019 - Jul 2020

Worked on a small engineering team helping to maximize the efficiency of the research pipeline.

- **Tech:** CSS, HTML, Javascript, Jenkins, Kubernetes, Python, R, SQL
- Designed and implemented tooling to enhance workflow of researchers, decreasing filesystem usage over 60%
- Distributed the generation of internal data structures over an HPC cluster, increasing speed over 100x

Mosaic Data Science

Data Science Intern

Leesburg, VA

May 2018 - Aug 2018

Worked with Mosaic's Data Science team on both private and public sector projects.

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

Indiana University

Research Assistant

Bloomington, IN

Jan 2017 - Aug 2017

3rd Sheet, LLC

Owner / Web and Mobile Developer

Bloomington, IN

Jun 2011 - Jan 2016

82nd Airborne Division, US Army

Infantryman

US / Abroad

May 2005 - Apr 2009

Education

Indiana University

M.S. Data Science

Dec 2018

Indiana University

B.S. Informatics, Minor in Psychology

May 2017