Tim Whitson

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Work Experience

Rebellion Defense   Remote
Software Engineer   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, Kubernetes, Linux Systems, Python, PostgreSQL, Terraform

- Designed and implemented integration testing framework, preventing hundreds of bugs from entering production
- 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   Seattle, WA
Production Engineer   Aug 2020 - Oct 2022

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

Tech: Bash, Buck2, C++, Linux Systems, Python, SQL, Testing (chaos, end-to-end, integration, performance), Custom Internal Tooling (CI/CD, Container Orchestration, Infrastructure as Code)

- 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   Seattle, WA
Software Engineer   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 of generation over 100x

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