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
- 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, *Production Engineer* – Seattle, WA   Aug 2020 - Oct 2022

- Supported production of a high-performance, high-scale, high-throughput distributed key-value store
- 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

- 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, *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

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

Skills

Languages: Bash, Python, SQL

Tools / Specialties: Ansible, AWS, CI/CD, Git, Kubernetes, Linux Systems, Terraform, Testing (chaos, end-to-end, integration, performance, systems)

Education

Indiana University   Dec 2018
M.S. Data Science

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