

# Tim Whitson

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## Work Experience

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### 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

- 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
- Developed chaos framework to test high-scale, distributed transaction store against network partitions

### 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

- Managed retrieval, storage, and analysis of over 50 million academic publications
- Published "Evaluating the Scientific Impact of XSEDE", PEARC, 2018

### 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

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**Languages:** Bash, Python, SQL

**Tools / Specialties:** AWS, CI/CD, Container Orchestration, Git, Infrastructure as Code, Linux Systems, Testing (chaos, end-to-end, integration, performance, systems)

## Education

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### Indiana University

M.S. Data Science

Dec 2018

### Indiana University

B.S. Informatics, Minor in Psychology

May 2017