

Tim Whitson

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Work Experience

Rebellion Defense

Software Engineer

Washington, DC (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
- Developed integration testing framework, preventing hundreds of bugs from entering production
- Met with subject matter experts to scope and develop automation for validating releases, saving dozens of hours of manual review per week

Meta

Production Engineer

Seattle, WA

Aug 2020 - Oct 2022

- Sped up deployment and testing process for entire software engineering team, saving hundreds of engineering hours per year
- Automated configuration, reducing the total amount of configuration by thousands of lines and allowing for dynamic cluster creation
- Scoped, roadmapped, and successfully managed intern project - ephemeral containers - speeding up development, testing and CI/CD pipeline
- Developed chaos framework for testing high-scale distributed database against network partitions

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
- Wrote software to enhance the workflow of researchers when running statistical models, 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

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

Skills

Languages: Bash, Python, R, SQL

Tools: AWS, CI/CD, Docker, Git, Linux

Testing: Chaos, End-to-End, Integration, Performance, Systems

Education

Indiana University

M.S. Data Science

Dec 2018

Indiana University

B.S. Informatics, Minor in Psychology

May 2017