Robert G Schmitz III

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EDUCATION

Master of Science, Computer Science and Systems Sept 2021 – Mar 2023

University of Washington, Tacoma, WA

- GPA: 3.83

Bachelor of Science, Computer Science and Systems Jan 2019 – Dec 2020

University of Washington, Tacoma, WA

- GPA: 3.86, Upsilon Pi Epsilon Honor Society

Certificate, IT-LAMP Open-Source Development May 2015 – May 2016

Madison Area Technical College, Madison, WI

EXPERIENCE

Research Assistant Sept 2021 – Mar 2023

University of Washington, Tacoma, WA

- Developed Docker containerized workflow and tools for gathering performance metrics to allow for cost analysis/budgeting of cloud infrastructure.

DevOps Engineer Sept 2021 – Dec 2022

BioDepot LLC, Seattle, WA

- Developing web application with a React front-end and Python/Flask back-end to rapidly provision AWS EC2 instances for running bioinformatics workflows.
- Developed Terraform module incorporating Ansible to deploy and configure remote servers.
- Developed GitHub Actions for automating release of Docker images.

Software Engineering Intern Oct 2020 – Sept 2021

BioDepot LLC, Seattle, WA

- Developed bioinformatics workflows using Docker containers and (bash) shell scripts.

Tutor Sept 2018 – Mar 2023

Tacoma Community College, Tacoma, WA

- Providing drop-in tutoring for algebra, trigonometry, calculus, and computer science.

Hardware Test Engineer Dec 2010 – Feb 2017

Extreme Engineering Solutions Inc, Verona, WI

- Developed in-house test framework with Linux, shell scripts, terminal macros, and Windows batch scripts.
- Primary trainer on test procedure software and documentation development.
- Created and revised a total of 587 acceptance test procedures.

Electronics Technician Oct 2006 – Dec 2010

Extreme Engineering Solutions Inc, Verona, WI

- Programmed, tested, and troubleshooted single board computers (SBC) and systems.
- Electronic debug and repair at the component level using microscopes, oscilloscopes, and multimeters.

PUBLICATIONS

- **Characterizing X86 and ARM Serverless Performance Variation: A Natural Language Processing Case Study**, *ICPE '22: Companion of the 2022 ACM/SPEC International Conference on Performance Engineering, July 2022, Pages 69–75, https://doi.org/10.1145/3491204.3543506*