

# Robert G Schmitz III

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## EDUCATION

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**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

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**System Analyst/Programmer 3** Mar 2023 – Present

*University of Washington, Tacoma, WA*

- Developing and facilitating training on Docker image creation and containerized workflows using Biodepot-workflow-builder (Bwb)
- Automation of various tasks using shell scripts and containerized microservices

**Research Assistant** Jan 2023 – 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

## PUBLICATIONS

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- **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>