Robert G Schmitz III

schmitzr1984@gmail.com • (608)320-0775 • linkedin.com/in/rgschmitz • github.com/rgschmitz1

EDUCATION

Master of Science, Computer Science and Systems Sept 2021 – Present
University of Washington, Tacoma, WA (expected Mar 2023)

Bachelor of Science, Computer Science and Systems Jan 2019 – Dec 2020
University of Washington, Tacoma, WA

- Upsilon Pi Epsilon Honor Society, GPA: 3.86, cum laude

Certificate, IT-LAMP Open-Source Development May 2015 – May 2016
Madison Area Technical College, Madison, WI

Associate in Applied Science, Electrical Engineering Technology May 2003 – May 2006
Madison Area Technical College, Madison, WI

EXPERIENCE

DevOps Engineer Sept 2021 – Present
BioDepot LLC, Seattle, WA

- Developing Python/Flask web application for rapid configuration and deployment of AWS EC2 instances.
- Developing GitHub Actions for automating deployment of Docker images.

Software Engineering Intern Oct 2020 – Sept 2021
BioDepot LLC, Seattle, WA

- Developing bioinformatics workflows utilizing Docker containers and shell scripts to analyze big data from federally funded databases.

Tutor Sept 2018 – Present
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 utilizing Linux/Unix, shell scripts, terminal macros, and 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.

PROJECTS

x86 vs arm performance evaluation: A topic-modeling application developed in Python was deployed on AWS Lambda using Docker images to study performance variability between x86_64 and arm64 in various regions.

Animated Gears: An animation of a camera panning over turning gears with JavaScript and WebGL.

Tutor Question Repository: A question repository wrapped with a graphic user interface designed to model relational database management system best practices. Developed in Visual Studio using C# and Azure SQL.

Equipment Tracker: Company internal equipment checkout and location tool. Developed using Linux, Apache, MySQL, PHP (LAMP stack) along with JavaScript and Bootstrap CSS.