

# Robert G Schmitz III

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## EDUCATION

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### Bachelor of Science, Computer Science and Systems

Jan 2019 – Dec 2020

*University of Washington, Tacoma, WA*

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

### Certificate, IT-LAMP Open-Source Development

May 2015 – May 2016

*Madison Area Technical College, Madison, WI*

- Phi Theta Kappa Honor Society, **GPA: 4.0**

### Associate in Applied Science, Electrical Engineering Technology

May 2003 – May 2006

*Madison Area Technical College, Madison, WI*

## EXPERIENCE

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### Software Engineering Intern

Oct 2020 – Present

*BioDepot LLC, Seattle, WA*

- Developing and testing bioinformatics workflows utilizing Docker containers and shell scripts to analyze big data from federally funded databases.
- Developing Python/Flask web application for rapid configuration and deployment of AWS EC2 instances.
- Performing empirical benchmark experiments on AWS EC2 instances.

### 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, Bash shell scripts, and terminal macros.
- 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 circuit board computers and systems.
- Electronic debug and repair at the component level utilizing microscopes, oscilloscopes, and digital multimeters.

## PROJECTS

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**Mobile CS Quizzer:** Java Android application developed in Android Studio designed to deliver computer science quizzes. Used Heroku cloud platform to host PostgreSQL database with a NodeJS API.

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

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

**Equipment Tracker:** Company internal equipment checkout and location tool. Developed using PHP, MySQL, AJAX and Bootstrap.