

# Chandler Calkins

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## EDUCATION

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### University of Washington

*Master of Science in Computer Science & Software Engineering*

Bothell, WA

*Ongoing*

### University of Idaho

*Bachelor of Science in Computer Science, Academic Certificate in Cybersecurity*

Moscow, ID

*May 2023*

## EXPERIENCE

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### Teaching Assistant

*University of Washington Bothell*

September 2025 – Present

*Bothell, WA*

- Taught undergraduate students advanced computer science topics and programming skills
- Evaluated students' code and gave feedback to improve their skills
- Rewrote and reorganized assignments to improve the university's computer science curriculum

### Level Teaching Lead

*X-Camp*

Apr 2025 – September 2025

*WA*

- Managed teams of teachers to ensure students were given high quality education
- Taught new teachers how to teach programming to kids to assist in expanding X-Camp into the Seattle area
- Taught students advanced computer science topics and programming skills
- Created, collaborated on, and updated curriculums to maximize student understanding

### Coding & STEM Coach

*Skill Samurai*

Sep 2023 – Apr 2025

*Redmond, WA*

- Taught students basic computer science concepts and advanced programming skills
- Created an advanced Python curriculum independently that was used for several classes and camps
- Troubleshoot and resolved technical problems with the software students used

### Optimization Engineer / Cybersecurity Research Assistant

*University of Idaho*

Feb 2022 – May 2022

*Moscow, ID*

- Improved experimental fuzzing tool developed by PhD student
- Ran tests and removed bugs
- Added comments, rewrote code for cleanliness, created documentation for codebase
- Optimized runtime by 10% - 40%

## PROJECTS

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### Robotic Assembly of Solar Arrays | *Robotics, Python, PAC, Raspberry Pi, Networking, Git*

- Programmed 2 Denso robotic arms to automatically assemble solar arrays as a proof of concept for NASA
- Worked with engineers from other disciplines to design and connect attachments for the robots
- Managed a budget and researched supplies to order
- Collaborated with NASA engineers to determine the best design choices

### Quad-Legged Walking Bot | *Robotics, Python, Raspberry Pi, Git*

- Led software development of 4-legged walking robot for university robotics club
- Wrote an easy to use library and documentation for controlling the robot
- Taught non programmer teammates how to use library to program the robot
- Programmed the robot to walk and set up codebase to take sensor inputs so robot can complete complicated tasks

## TECHNICAL SKILLS

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**Languages:** C, C++, Rust, Python, Java, SQL (MySQL), HTML, CSS, JavaScript, C#, PHP, Bash, PowerShell

**Platforms:** Git, Raspberry Pi, Unity, Apache, Dynamixel

**Areas of Focus:** Cybersecurity, Robotics, Machine Learning / AI