

# Chandler Calkins

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## EDUCATION

### University of Idaho

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

Moscow, ID

May 2023

## EXPERIENCE

### Coding & STEM Coach

*Skill Samurai*

Sep 2023 – Present

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
- Communicated with clients to answer questions and ensure their needs were met

### 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

### TF2 Match Predictor Neural Network Framework | *Python, Machine Learning, AI, Tensorflow, Git*

- Created framework to test neural network models for accuracy in predicting Team Fortress 2 match outcomes
- Developed program to source data from professional matches on [logs.tf](https://logs.tf)
- Designed and tested various neural networks to find most accurate model
- Found model that had 66% accuracy in predicting exact scores and 91% accuracy in determining winning team

### 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

### Random Sound Discord Bot | *Python, Discord API, Linux, Bash, Cloud Service, Cloud Computing, Git*

- Created Discord bot that randomly joined voice channels and played sounds as a joke for friends
- Made the bot highly customizable with lots of settings and commands
- Allowed and managed sound file uploads and downloads to the bot
- Operated the bot on a cloud hosting network and eliminated cybersecurity risks

## TECHNICAL SKILLS

**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

## CERTIFICATIONS, AWARDS, AND ACTIVITIES

### PenTest+

*CompTIA*

April 2023 – April 2026

*University of Idaho*

### NCAE Cyber Games Second Place

*Northwest Regional*

March 2023

*University of Idaho*

### Eagle Scout

*Senior Patrol Leader, Assistant Senior Patrol Leader, Patrol Leader, Order of the Arrow Rep*

Nov 2018

*Troop 356*

### Robotics Club

*Lead Software Engineer of Mobile Robot Team*

Aug 2022 – May 2023

*University of Idaho*