

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](#)
- 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, Vultr, 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