Chandler Calkins

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EDUCATION

University of Idaho   Moscow, ID
Bachelor of Science in Computer Science, Academic Certificate in Cybersecurity   *May 2023*

EXPERIENCE

Coding & STEM Coach   Sep 2023 – Present
Skill Samurai   *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
- Troubleshot 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   Feb 2022 – May 2022
University of Idaho   *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*
- 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*
- 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*
- 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++, Python, Java, Rust, 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+   April 2023 – April 2026
CompTIA   *University of Idaho*

NCAE Cyber Games Second Place   March 2023
Northwest Regional   *University of Idaho*

Eagle Scout   Nov 2018
Senior Patrol Leader, Assistant Senior Patrol Leader, Patrol Leader, Order of the Arrow Rep   *Troop 356*

Robotics Club   Aug 2022 – May 2023
Lead Software Engineer of Mobile Robot Team   *University of Idaho*