

Chandler Calkins

Software Engineer / Developer

chandlerjaycalkins@gmail.com | linkedin.com/in/chandler-calkins | chandlerjaycalkins.github.io

SKILLS

C, C++, Python, Java, C#
HTML, CSS, Javascript, PHP
SQL / MySQL
Linux / Unix
Bash / Shell Scripting
Git / GitHub
Cybersecurity
Robotics
Machine Learning
Game Design / Unity
Compiler Design
Digital Forensics
Raspberry Pi
Discord.py API
Video Editing

ACTIVITIES

University of Idaho Robotics Club
Mobile Robot Team
August 2022 - May 2023
Lead Software Engineer

NCAE Cyber Games
March 2023 | University of Idaho
2nd Place | Northwest Regional

Scouts BSA
2012 - 2019 | Troop 356
Eagle Scout | Order of the Arrow
Senior Patrol Leader

PC Gaming, Hiking, Video Editing

EXPERIENCE

Coding and STEM Coach

Eastside Skill Samurai | Redmond, WA | September 2023 - Present
Planning curriculums, providing tutoring, and giving lessons for K-12 kids on STEM and coding skills for after-school enrichment.

Optimization Engineer

University of Idaho | Moscow, ID | February 2022 - May 2022
Optimized a grammar based fuzzing tool originally written by a PhD student to run 10%-40% faster through removal of unnecessary code and replacing an $O(N^2)$ algorithm with an $O(N)$ algorithm. Also performed maintenance and testing on the code. Worked in Python and Ubuntu Linux.

Auction Assistant

Maxsold | Seattle Area, WA | May 2021 - August 2021
Worked with a team to photograph and upload descriptions of auction lots for estate and downsizing sales. Also guided customers to their lots and provided security at auction pickups.

EDUCATION

Computer Science (B.S.)

University of Idaho | Moscow, ID | August 2019 - May 2023

Cybersecurity Undergraduate Academic Certificate

University of Idaho | Moscow, ID | August 2019 - May 2023

AWARDS AND CERTIFICATIONS

CompTIA PenTest+

April 2023

Eagle Scout

Scouts BSA | Troop 356 | November 2018

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PORTFOLIO

Personal Website

[GitHub](#)

This website is a fancy version of my resume that I made to practice my web development skills.

Robotic Assembly of Solar Arrays

[Video](#)

The goal of this project was to make it so two Denso robotic arms could automatically assemble solar arrays for NASA.

Capstone Meeting Discord Bot

[GitHub](#)

This is a discord bot that kept track of meetings and duties for my senior capstone project team.

Database-Website Interface Project

[GitHub](#)

This project is a website that allows users to submit queries to a database to search for products and services with several different search types.

Wonky Wizards

[GitHub](#)

This is a 2D tower defense + shooter game demo made in Unity.

TF2 Match Predictor Neural Network Framework

[GitHub](#)

This project is a framework for creating neural networks that predict the outcome of competitive Team Fortress 2 matches based on which players are on each team.

Quad Legged Walking Bot

[GitHub](#)

This project is a codebase for a four-legged spider-like robot that can walk.

C- Compiler

[GitHub](#)

This project is a compiler for the C- programming language that generates executable files for the Tiny Virtual Machine.

Random Sound Discord Bot

[GitHub](#)

This is a discord bot that joins voice channels at random times and plays random sound files that you can upload to the bot.

Python Viruses

[GitHub](#)

These are demo viruses for windows that infect python files to make them run malicious code.

Full Portfolio: <https://chandlerjaycalkins.github.io>