

Kyle Hurd

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Education

Bachelor of Science, Computer Science

Washington State University | Pullman, WA

Fall 2022

GPA: 3.93

Associate of Arts, Music

Grays Harbor Community College | Aberdeen, WA

Spring 2017

GPA: 3.93

Professional Experience

Junior Software Engineer

Raleigh, NC

Applied Research Associates

May 2023 - Present

- Integrating joint targeteering on an Integrated Munitions Effect Assessment tool using **C++**, **CMake** and **Qt** on the **Windows** platform.
- Create and communicate with **REST APIs** to stream geospatial data and targets from miscellaneous sources to aid targeteers in planning and simulating bombardment-style attacks.
- Participate in the **AGILE** methodology, actively engaging in sprint meetings, backlog refinements, retrospectives, and daily standups.

Software Engineer Intern

Seattle, WA

Amazon

May 2022-Aug 2022

- Actively communicated project progress by following the **AGILE** methodology with sprint meetings, reflection meetings, and daily standups.
- Improved the performance and trust of **integration testing** for Alexa's Routine Recommendations Engine Service by mocking the external dependencies used by the system.
- Developed code on a **remote desktop**, utilizing **Amazon EC2 Linux** instances alongside **IntelliJ IDEA** to run, test, and contribute to the repository.
- Communicated with **Amazon DynamoDB** tables as a storage tool for mocking results.

Software Engineer Intern

Pullman, WA

Schweitzer Engineering Laboratories

Oct 2021-Dec 2021

- Performed **stress tests** on SEL Real-Time Automation Controllers (RTAC) for new firmware releases.
- Improved the setup and teardown procedures of tests by designing **automated scripts** to adjust input and output parameters to the device.

Teacher's Assistant – Fundamentals of Programming in Python

Pullman, WA

Washington State University

Aug 2020-Dec 2022

- Educated students in the fundamentals of programming in **Python** by hosting weekly labs and office hours.
- Leveraged my knowledge of common misconceptions students make learning new programming languages to help **improve productivity**.
- Managed and **graded sensitive content** such as programming assignments, examinations, and lab materials.

Projects

SkyBro: Weather Observations

Repo: <https://github.com/khurd21/SkyBro>

- An **Alexa Skill** providing weather observations tailored for skydivers and aviation enthusiasts.
- SkyBro provides data regarding cloud coverage, flight rules, wind conditions, precipitation, adverse conditions, and temperature for drop zones around the United States.
- Built with **C#** using **AWS Lambda** and **Alexa Skill Set**.

Flappiest Bird

Repo: <https://github.com/khurd21/Flappiest-Bird>

- Recreation of the iconic Flappy Bird released in May, 2013.
- Play two game modes, Normal Mode or Flappy Invaders. Normal Mode is the classic experience from the original game where Flappy Invaders challenges you with enemy birds!
- Built with **C++** using **SFML**.

Linux EXT2 Filesystem

Repo: <https://github.com/khurd21/ext2-file-system>

- A **Linux-compatible ext2 filesystem**.
- Traverse or modify the filesystem with basic commands such as **cd**, **ls**, **mkdir**, **rmdir**, and **pwd**. Open files for read and write operations.
- Built with **C**.