Kyle Hurd

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Professional Experience

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.

Education

Bachelor of Science, Computer Science Fall 2022
Washington State University | Pullman, WA GPA: 3.93

Associate of Arts, Music Spring 2017
Grays Harbor Community College | Aberdeen, WA GPA: 3.93

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**.

Macbeth
Repo: https://github.com/epimodels/macbeth
- **Open source** disease modeling web application tool.
- Dynamically load in deterministic and stochastic models for users to run and view outputs.
- Built with **Python**, **Django** and **React**.
- 1st place in the senior design capstone course at Washington State University.

Skills

Programming Languages: C#, C/C++, Python, Java, SQL, HTML
Frameworks and Tool: ASP.NET, Git, VSCode, AWS, DynamoDB, Jupyter Notebook, GitHub