Christian Walker
SOFTWARE ENGINEER

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Work Experience

Northrop Grumman   *Baltimore, MD*
Software Engineer Intern   *Summers of '23 and '24*

- Was integrated into the AGILE development process. Familiarized myself with JIRA and how a large project can work together, distribute work, and track progress. Additionally , provided the necessary documentation to help others who may find or refine your work at a later point in time.
- Wrote code in C++ to an Electronic Warfare Missile defense system in development.
- Worked with Jenkins to create automated builds with different versions for SEWIP. These builds pulled the latest code from developers to incorporate into the build. The build would then be compiled, and ran through many tests. In the case that those passed it would be uploaded to a drive where the builds could be accessed. If any tests failed or were unable to be compiled, it would email developers who had made changes since the last successful build.

YMCA   *Ellicott City, MD (Dancel)*
Pool Manager   *June 2022 – August 2022*

- Maintained pool cleanliness and chemical levels. Kept a clean facility by following opening and closing checklists.
- Upheld YMCA Values of Caring, Honesty, Respect, and Responsibility
- Maintained the safety of swimmers and others around the swimming pool. This included a wide range of ages from kids undergoing swim lessons to adults in exercise classes.
- Helped any member with any questions they had about pool scheduling, classes at the pool, or general questions about the facilities.

American Pool   *Columbia, MD*
Apartment/Hotel Lifeguard   *June 2021 – August 2021*

- Ensured that the pool was clean. Checked chemicals every hour and took appropriate action to ensure that pH and Chlorine levels were within the correct values.
- Maintained the safety of swimmers and others around the swimming pool. Was instructed in administering CPR if needed.
- Unlocked and Locked the pool gates. Following checklists to ensure that it would stay clean and secure overnight.

Projects

Electronic Attack Defense System @ Northrop Grumman   C++, C, Python, AGILE Skills, Linux

- Helped write code in C++ for an Electronic Warfare defense system. Used Python alongside it to sort thousands of test cases *Summer of 2023* to find cases that fit our testing regimen.
- Learned the process of AGILE development, working with JIRA and being assigned tickets as well as how to report the completion of tickets.
- Worked within a Linux terminal for the first time. The experience significantly enhanced my understanding of Linux terminal commands and demonstrated the efficiency and automation capabilities of Shell scripting.

SEWIP Jenkins Automation @ Northrop Grumman   Jenkins, Batch/Shell Scripts

- Helped fix Jenkins pipeline for Northrop's SEWIP BLOCK 3 project. This entailed looking at what was breaking the *Summer of 2024* builds in Jenkins, fixing scripts to make stable builds, running tests on those builds with scripts, locating the builds to a drive that would auto delete the older build.
- Worked to add a system, that if a build was broken, would email all developers that made a change in code since the last stable build. This helped locate at the code that broke the build.
- Changed the build time of the project from 2 hours to 40 minutes. Reducing it to a third of what it originally took to build. This included running 7 large test scripts.

VALORANT Discord Summary Bot @ Freelance   Python

- Summer Project. Wanted to create a Discord bot on the FPS game "VALORANT". Used an API that gets data *June 2023 - August 2023* from player's matches and post messages that are formatted to show statistics about that player and their game.
- Was very useful for a Summer project to get me used to reading documentation to use an API, interfacing the bot with the code, and general GitHub knowledge.

Education

University of Maryland, Baltimore County   *Baltimore, MD*
BS Computer Science   *September 2021 - May 2025*
GPA: 3.553

Skills

Programming	**Automation**	**Other Technologies**
C++, C, Python, React, SQL	Jenkins, Batch/Shell Scripts	Git, Docker, JIRA, BitBucket