

Jackson McCall

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EDUCATION

Washington University in St. Louis <i>M.S. in Computer Science</i> <i>B.S. in Computer Science, Computer Science GPA: 4.0</i>	St. Louis, MO Fall 2024 – Spring 2025 Fall 2022 – Spring 2024
The University of the South: Sewanee <i>B.S. in Computer Science, Computer Science GPA: 3.76 (degree conferred 2024)</i>	Sewanee, TN Fall 2018 – Spring 2022

EXPERIENCE

Research and Development Intern <i>Kitware Inc.</i> <ul style="list-style-type: none">Completed large-scale refactoring of several open-source codebases to comply with new JATIC protocolsAssisted in refactoring GitLab CI/CD Pipeline into atomic stages to meet new customer requirementsWrote new interface ImageMetric for the nrtk packageWrote ImageMetric implementation SNRImageMetric with corresponding unit testsParticipated in the team's SAFe Scrum process	Summer 2024 Minneapolis, MN
Machine Learning Intern <i>NSIN - National Security Innovation Network</i> <ul style="list-style-type: none">Collaborated with a team to create an image classification model (>95% accurate) for the Department of Defense	Summer 2023 Remote
Student Digitization Assistant <i>WashU West Campus Library</i> <ul style="list-style-type: none">Assisted digital imaging specialists in creating and processing images of library and special collection materialsDeveloped Python scripts to assist in optimizing the digitization workflow	Fall 2022 - Present St. Louis, MO
Research Assistant <i>University of the South</i> <ul style="list-style-type: none">Contributed to GridMusic, a generative music project, using the Processing programming environmentDeveloped a sound and melody generator using Conway's Game of Life, integrated with <i>GridMusic</i>Refactored the codebase to run on Processing 4 (Java)	Summer 2022 Sewanee, TN

PROJECTS

Portfolio Website <ul style="list-style-type: none">Designed a portfolio website www.thejackmccall.com to better showcase my experience, projects, and ideas	Fall 2024
Base Defense Roguelike Game <i>Unreal Engine 5</i> <ul style="list-style-type: none">Developed a 3rd-person 3D base defense roguelike game with a team for the 2023 WashU HackathonDesigned the character movement system and melee attack system, also configured appropriate animations	Fall 2023
Perceptron ML Algorithm <i>Python</i> <ul style="list-style-type: none">Created and implemented the perceptron machine learning algorithm from scratchImplemented batch and sequential training methods, including support for non-linearly separable datasets	Spring 2023
Space Cowboy 2D Platformer Game <i>Unity, C#</i> <ul style="list-style-type: none">Collaborated with three friends to create a basic 2D platformer game in UnityDesigned and implemented the final boss: a cactus with radial-spike attacks that increased in speed	Spring 2022

TECHNICAL SKILLS

Languages: C++, Python, C, C#, x86-64 Assembly, Java, SQL, HTML, CSS, PHP
Frameworks and Libraries: Unity, Unreal Engine 5, TensorFlow, PyTorch
Tools: Linux, Git, GitLab, pytest, CI/CD Pipeline, Docker

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Captain of WashU Green/Red Collegiate Valorant Team	Fall 2022 - Present
Co-Founder and Captain of Sewanee PNG Collegiate League of Legends Team	Fall 2020 - Spring 2022