

Ryan Holdstock

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[linkedin.com/in/ryan-holdstock/](https://www.linkedin.com/in/ryan-holdstock/) | ryan-holdstock-photography.neocities.org | github.com/ryan-holdstock-04

EDUCATION

University of North Carolina at Charlotte, Charlotte, NC

December, 2026

Bachelor of Science in Computer Science, *Concentration in AI, Gaming, and Robotics*

Dean's List

Temple University, Japan Campus, Tokyo, Tokyo-to, Japan

September 2025 - December 2025

Virginia Tech, Blacksburg, VA

August 2022 - May 2023

COURSEWORK

Logic and Algorithms, Matrices and Linear Algebra, Intro to Probability and Statistics, Computers and Their Impact on Society, Data Structures and Algorithms, Introduction to Human-Centered Computing, Intro to Computer Systems, Data Matter, Foundations of Machine Learning

SKILLS

Programming Languages: Python, Java, JavaScript, C#, C++, Assembly, HTML, CSS, R, Visual Basic, Shell Script, MATLAB, SQL

Frameworks/Tools: Unity, Godot, Jupyter Notebook, Linux, Node.js, React.js, scikit-learn, Pandas, NumPy

Spoken Languages: English, Basic Conversational Japanese

PROJECT EXPERIENCE

Custom Photography Portfolio, <https://ryan-holdstock-photography.neocities.org>

August, 2025 - Present

- Designed and developed the front-end and back-end of a personal photography portfolio using HTML, CSS, and JavaScript.
- Implemented Masonry.js and ImagesLoaded.js to create a responsive and dynamic image gallery.
- Streamlined project management by utilizing Git and GitHub Desktop for version control to safely update website.
- Built a custom lightbox display on image click with button and arrow key navigation using EventListeners.
- Optimized website for mobile and desktop using responsive design techniques that adapt the website based on window size.
- Created a sorting system based on image data and id to make photo organization more user friendly and allow image filtering.
- Utilized Firefox development tools for debugging purposes and compatibility testing on different devices.

Flappy Bird Demake, <https://rasberrypi.itch.io/flipp-bjord>

February, 2023

- Recreated Flappy Bird in Unity utilizing C# and implementing core functionality such as gravity, jumping, and input.
- Programmed random obstacle generation, multiple difficulty modes, and saved high scores.
- Developed a start screen, menu system, and pause functionality with a focus on making an appealing and functional UI.
- Maintained a cohesive stylized aesthetic, sound effects, volume control, and parallax camera movement.

Arch Linux, <https://github.com/ryan-holdstock-04/Arch-Dotfiles>

May, 2025 - Present

- Installed and customized Arch Linux, gaining experience with configuration files, shell scripting, and command-line tools.
- Applied principles of color theory and UI design to create a visually appealing and productive desktop environment.
- Maximized workflow efficiency through customized key bindings, automation scripts, and a fully tailored system.

Anki Class Leaderboard Tracker,

February, 2025 - April, 2025

- Developed an application to track Anki class leaderboard statistics, fostering a sense of community and competition in class.
- Utilized Discord's API to create a bot that allows users to easily track their current placement, streak, and other statistics.
- Gained experience with web-scraping, data-management, and sorting algorithms.

Study Abroad in Japan

September 2025 - December 2025

- Immersed in and adapted to life in a foreign environment while managing a full academic course load.
- Explored Computer Science and Machine Learning in an international setting, building skills for cross-cultural collaboration.
- Tested out of Japanese I through self-study to qualify for more programs abroad and won an award in Japanese II.

WORK EXPERIENCE

Spun Yarn, Cary, NC

2020 - 2022

Beta Reader

- Beta read books, providing valuable feedback to aspiring authors in a variety of genres and demographics.
- Developed ability to think critically about literature and gained experience giving and receiving different types of feedback.

Glory Days Grill & Scratch Kitchen, Cary, NC

Summer of 2022 and 2023

Back of House Employee, Front of House Employee, Dishwasher, Runner, Server Support, Host

- Collaborated with team members in a fast-paced and high-pressure restaurant environment.
- Interacted with customers to make sure their needs were being met, building customer service skills.
- Maintained cleanliness in the kitchen by always being the last one out, ensuring the restaurant is ready for the next day.
- Assisted kitchen staff with food preparation when needed, demonstrating initiative and flexibility.