

# Austin Robinson

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## EDUCATION

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**The University of North Carolina at Chapel Hill** | Chapel Hill, NC

**Bachelor of Science in Computer Science (Intended) and Economics**

May 2026

**Relevant Coursework:** Data Structures, Systems Fundamentals, Calculus of Functions of Several Variables, Discrete Mathematics, and Introduction to Data Science and Econometrics

## EXPERIENCE

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**AI@UNC Wildfire Detection Project** | Team Member | Fall 2024 - Present

- Collaborating with a team of four to develop a drone-based wildfire detection system utilizing machine learning.
- Responsible for developing a fire detection model using PyTorch, processing images captured by drones equipped with NVIDIA Jetson Nano.
- Using a CNN (convolutional neural network) as the main ML technique to detect fires in the image dataset.
- Contributed to the integration of GPS coordinate transmission to a web platform for real-time fire location updates.

**Outlier AI Advanced Coders – AI Training** | Contract Work | Fall 2024 – Present

- Help train ML models by giving difficult code or images for it to solve.

## TECHNICAL PROJECTS

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**Collect the Hay Bales (Game)** | Personal Project / HackNC Project

Fall 2023 - Present

- <https://www.youtube.com/watch?v=noK9FcLZ3vM>

- Developed the game initially in Pygame and later migrated to Phaser.js for web compatibility.
- Used Supabase for user authentication and their database (PostgreSQL). This implementation allowed for a seamless Next.js application.
- Overcame challenges in score collection and API communication with Supabase, enhancing problem-solving skills.

**Java 2D Game** | Personal Project

2023

- Created a dynamic 2D world using tile mapping, associating numerical values with sprite images to render the map.
- Implemented a camera system centered on the player to enhance user experience.

**News Scraper** | Personal Project

September 2024

- Implemented a user interface allowing selection of preferred news outlets, returning article titles, summaries, and direct links.
- For personal use, made a website that allowed finding articles in a streamlined format for the 2024 Election.

**Portfolio Website** | Personal Project

- A website for myself to show other's my projects. Able to contact me from it.
- Creating the modal and contact components was an interesting learning experience.
- Developed using Next.js. Hosted on Vercel.
- <https://www.austin-cs-resume.com/>

## SKILLS & CERTIFICATIONS

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- **Programming Languages:**

**Proficient in:** Python, Java, C, JavaScript, React, HTML, CSS

**Familiar with:** R, C++, PostgreSQL

- **Tools and Technologies:** Git, AWS (EC2), Phaser.js, Pygame, Linux (Docker), APIs