

Nathan Houston

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GitHub: <https://github.com/nhouston125>

Education

University of North Carolina Asheville

Asheville, NC

Bachelor of Science in Computer Science – Minor in New Media

May 2027

Information Systems

Dean's List – Fall 2024

Relevant Courses: Advanced Web Technology, Software Engineering, Data Structures

Design & Creative Skills

Digital Tools: Procreate, Adobe Photoshop, Canva, Aseprite

Design Skills: Character design, wireframing, layout, color theory, accessibility

Traditional Media: Sketching, digital illustration, storyboarding

Technical Skills

Programming Languages: Python, Java, JavaScript, C, HTML, CSS, GDScript

Frameworks & Libraries: React, Tailwind CSS, FastAPI

Tools & Platforms: VS Code, Eclipse IDE, Git, Docker, WSL, Excel

Academic Projects

UNCA Computer Science Department

August 2023 - Present

UNCA Course Lookup CLI Tool – *Software Engineering* – *Python, Docker*

- ❖ Collaborated in a team to replicate key features of UNCA's course search system via CLI.
- ❖ Worked in a shared Docker development environment; wrote tests to ensure code quality.

Interactive Web Application – *Advanced Web Technology* – *React, Tailwind CSS, FastAPI*

- ❖ Built a responsive full-stack web app with a clean, modern UI for organizing user posts.
- ❖ Implemented backend APIs with FastAPI and managed data within the app.
- ❖ Focused on accessibility and clear visual hierarchy to enhance user experience.

Minesweeper Console Game – *Data Structures* – *Java*

- ❖ Developed a console version of Minesweeper with recursive reveal logic using a stack.
- ❖ Emphasized modular, readable code and intuitive user input to enhance engagement.

Asheville YMCA Technical Experience

Member Engagement Representative II & IT Support

January 2024 - Present

- ❖ **Provided technical support to members**, troubleshooting app issues.
- ❖ **Optimized locker rental tracking spreadsheet**, implementing conditional formatting, dropdowns, and a Daxko alert template, reducing lost revenue.
- ❖ **Developed a Holiday Crunch shirt order prediction spreadsheet**, reducing manual calculations and improving count accuracy.
- ❖ **Created an Excel spreadsheet to analyze personal training revenue across 7 branches**, identifying formatting errors and improving data consistency.

Leadership & Community Engagement

Association for Computing Machinery (ACM), UNCA Chapter

August 2024 - Present

Chair of Programming Competitions

- ❖ Organized coding events and promoted creative problem solving among CS students.

Girls Who Code, Cox Mill High School - Academy of Information Technology

June 2019

After School Club & Summer Immersion Program

Sponsored by Bank of America

- ❖ Participated in workshops on coding and digital storytelling.