

Morgan Roadman

morganroadman@yahoo.com | +1-304-650-8330
www.linkedin.com/in/morgan-roadman-a39b61336
morganroadman.com

EDUCATION

Bachelor of Science in Computer Science - *Analysis, Simulation, & Modeling Concentration*

Concord University (Athens, WV) | Summa Cum Laude | GPA: 3.93/4.00 | May 2025

Minors: Mathematics, Music, and Physics

FAMILIAR COMPUTER/TECHNICAL SKILLS

Python | Matplotlib | C++ | C | SQL | Linux | HTML + CSS

PROJECTS

Interferometry in Radio Astronomy - *Python, GNU Radio, HTML*

- Capstone project combining data from two horn telescopes to display real-time fringe patterns during drift-scan observations

Virginia Tech Center for Neutrino Physics REU

- Presented research on coherent elastic neutrino-nucleus scattering (CEvNS) signal characteristics of plutonium-241 in spent nuclear fuel

Random Walk Simulator - *Python*

- Partner coding project from Computational Physics that simulates the Random Walk mathematical concept

Multi-threaded Conway's Game of Life - *C++*

- Individual project from Parallel and Distributed Computing that implements Conway's Game of Life

EXPERIENCE

Radio Astronomy Assistant - *Concord Physics Dept.*

Athens, WV | 2024-2025 academic year

- Analyzed hydrogen frequency signals collected by horn telescopes

Student Assistant - *Concord Music Dept.*

Athens, WV | 2022-2025 academic years (part-time)

- Managed and organized music library archives and helped run honor bands

Store Team Member - *Sheetz #234*

Weirton, WV | Summers & Holidays 2022, 2023, 2024

- Operated cash register, prepared food, and maintained store cleanliness during overnight shifts

HONORS & ACTIVITIES

Honors & Awards: Summa Cum Laude; Dean's List (all semesters); Outstanding Computing Major Award; Outstanding Performance in the Program of Music; SGA Spirit Award

Ensembles: Marching Band, Concert Band, Collegiate Singers, and ConChords

Organizations: Sigma Sigma Sigma National Sorority; Hopper-Turing Society; Student Government Association