

Ayden Matocha

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EDUCATION

Appalachian State University | Boone, NC

August 2023 - Expected May 2027

B.S. in Computer Science, Minor in Statistics, Certificate in Sports Analytics

GPA: 3.88/4.0

Relevant Courses: Data Structures, Software Engineering, Database, Programming Languages, Client-side Web Programming, Computer Systems, Statistical Data Analysis, Statistical Modeling

TECHNICAL SKILLS

Data Science & Statistics: R, Python, SQL, Predictive Modeling (XGBoost), Statistical Analysis (Tidyverse, Pandas)

Programming Languages: Java, C, C++, JavaScript, Haskell, x86 Assembly

Tools: Git, GitHub, Markdown, Visual Studio Code, RStudio, Quarto, MySQL, Kaggle, AWS

Web Technologies: HTML, CSS, JSON

Certifications: AWS Certified Cloud Practitioner

RELEVANT EXPERIENCE

Appalachian State Campus Store | Boone, NC

August 2023 - Present

Tech Sales Associate

- Monitor the tech area of the campus store, answering any questions about the technology being sold
- Utilize the NetSuite software to track inventory and predict revenue, determining which items to order
- Handle department orders and P-Card transactions to assist faculty with orders

Coldwell Banker HPW | Holly Springs, NC

November 2022 - April 2023

Intern

- Utilized Google Sheets to track customer data and verify accuracy
- Managed a Facebook group for people relocating to the area, handling posting events and answering questions

PROJECTS

2026 NFL Draft Rankings | R, Quarto, Git, GitHub

April 2026

[GitHub](#)

- Built an R-based player ranking system to evaluate 2026 NFL Draft prospects using weighted statistical models
- Integrated data from PFF API, CSV datasets, and play-by-play data to interpret player performance
- Developed position-specific evaluation formulas to rank prospects across multiple position groups
- Combined positional rankings into a final overall big board and utilized Quarto for reproducible analysis

Dynamic NFL ARM Rankings | R, Git, GitHub

September 2025

[GitHub](#)

- Developed a dynamic R model to rank NFL teams on a 0–10 scale using a 5-factor weighted formula
- Collected and processed play-by-play data to generate advanced team performance metrics
- Implemented web scraping with rvest to acquire additional team statistics from external sources
- Designed data visualizations to display team ratings and trends using R plotting tools
- Built a system capable of updating rankings dynamically as new data becomes available

YESS Y86 Simulator | C, Git, GitHub

September 2025 - December 2025

- Built a Y86 processor simulator in C, implementing a 5-stage pipelined architecture as a final project for a systems course
- Modeled core pipeline stages (fetch, decode, execute, memory, write-back) to simulate instruction execution
- Collaborated through pair programming to design, debug, and optimize simulator functionality
- Used Git and GitHub for version control, code management, and team collaboration