

Adam Alvarado

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EDUCATION

Furman University

Bachelor of Science in Computer Science

Minor in Data Analytics

GPA: 3.31/4

Greenville, SC

Expected May 2027

Relevant Coursework: Discrete Mathematics, Data Analytics, Artificial Intelligence, Advanced Data Structures & Algorithms.

WORK EXPERIENCE

Undergraduate Research Assistant

Furman University Computer Science Department

Greenville, SC

June 2025 - August 2025

- Engineered a self-hosted LLM chatbot system using the llama.cpp library on consumer-grade hardware.
- Conducted hardware-stress tests to simulate consumer environments, proving that RAM acts as a binary requirement while CPU scaling follows a complex, non-linear improvement pattern.
- Visualized complex datasets using Seaborn to illustrate the inverse correlation between model size and scalability.

CAMPUS LEADERSHIP

Baritone Section Leader

Paladin Regiment Marching Band

Greenville, SC

August 2024 – Present

- Led baritone section by organizing rehearsals, providing musical and marching feedback, and fostering team cohesion for optimal performance.

Social Chair, Warden

Phi Mu Alpha Sinfonia

Greenville, SC

August 2024 – Present

- Organized and led fraternity social events, fostering brotherhood and engagement by planning mixers, formals, and gatherings, while ensuring compliance with fraternity and university policies.
- Directed the safeguarding and inventory management of chapter property and ritual equipment while serving as the primary officer for risk management and internal protocol to ensure seamless operational transitions during all chapter functions.

TECHNICAL SKILLS

- **Languages:** Python, Java
- **Tools & Hardware:** PC Architecture/Building, Git, Linux/Unix Environments, Data Visualization.
- **Version Control:** GitHub