

Avery Fernandez, Software Engineer

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LINKS

[LinkedIn](#), [Personal website](#), [GitHub \(personal\)](#), [GitHub \(UA Library\)](#)

PROFILE

Meet Avery Fernandez, a skilled Computer Science student at the University of Alabama with experience in Python, TensorFlow, and PyTorch. With a background in developing virtual environments and rocket payload systems, Avery is a talented software engineer with expertise in artificial intelligence integration. Contact Avery today to work with a passionate and accomplished young professional.

EMPLOYMENT HISTORY

Oct 2021 — Present	Programmatic Data Analyst, UA Library	Tuscaloosa
I develop Python and Unix tutorials and guides for the UA Library, covering topics such as network analysis, API calls, data manipulation, graphic visualization, machine learning, and OCR. I collaborate with professors and departments on research projects and deliver in-person lectures on Python, Unix, and hardware integration.		
Oct 2022 — Present	Intern, Fanaticus XR	Remote
At Fanaticus XR, I design and develop virtual environments using my expertise in 3D and VR technology. I conduct market research to gain insights into consumer opinions and rapidly prototype applications for high-quality deliverables.		
Sep 2022 — Present	Avionics Leader, Alabama Rocketry Association	Tuscaloosa
At the Alabama Rocketry Association, I teach soldering, wiring diagrams, electrical wiring, and programming as an Avionics Leader and Payload Technician. I developed a payload that can orient itself parallel to the horizon and decode data transmissions from ground control. These experiences honed my hardware integration and programming skills, making me a confident engineer.		
Mar 2022 — Jun 2022	Avionics and Payload Technician, Alabama Rocketry Association	Tuscaloosa
As an Avionics and Payload Technician at the Alabama Rocketry Association, I designed and optimized a camera system that accurately calculated the recovery location of the rocket. Additionally, I automated flight altitude calculations and optimized the payload design for optimal performance.		

EDUCATION

Aug 2021 — May 2025	Bachelor of Science in Computer Science, University of Alabama at Tuscaloosa	Tuscaloosa
As a Computer Science student at The University of Alabama, I am proficient in programming languages such as Python and C++, web development, hardware integration, and electrical circuitry. I have hands-on experience with Python libraries including TensorFlow, Tesseract, and PyTorch.		

SKILLS

Linux	Experienced	C++	Experienced
HTML & CSS	Experienced	Python	Expert
Git	Experienced	Rest APIs	Expert

HOBBIES

In my free time, I enjoy playing video games to stay up-to-date with industry trends, creating websites to showcase my creativity and programming skills, and content creation, which lets me express myself and share knowledge.

REFERENCES

Vincent Scalfani from University of Alabama

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