

# Scott A. Ratchford

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## EDUCATION

### **Bachelor of Science in Computer Science**, May 2024

The University of Alabama, Tuscaloosa, AL  
Computer Science **Minors:** Mathematics, History  
GPA: 3.542/4.000  
Honors College  
**Master of Business Administration**, May 2025  
The University of Alabama, Tuscaloosa, AL

## WORK EXPERIENCE

### **Software Developer**, May 2023 – present

*SmartLam North America*, Dothan, AL

- Develop Python-based software to optimize production scheduling
- Conduct analysis to align software with manufacturing needs
- Automate inventory management using Zoho Creator

### **College of Engineering Technical Support**, May 2021 – May 2023

*The Cube, University of Alabama Department of Engineering*, Tuscaloosa, AL

- Operating 3D printers, scanners, and laser cutters
- Creating 3D models in CAD software, especially SolidWorks
- Managing order queue

### **3D Design Intern**, May 2022 – August 2022

*NGE Equipment*, Tuscaloosa, AL

- Operating and maintained 3D printers for prototyping
- Programming 3D printers directly with g-code and scripted for Cura
- Developing in Python with Kivy framework

## LEADERSHIP

### **Crimson Smash Club President**, April 2021 – January 2022

*University of Alabama*, Tuscaloosa, AL

- Scheduling weekly and monthly events of 100+ attendees

## COMPUTER SKILLS

Proficient in Python programming language  
Proficient in version control with Git and GitHub  
Proficient in containerization with Docker  
Proficient in Django and Flask web development frameworks  
Proficient in PyQt6 graphical user interface toolkit  
Proficient in database operations using SQL  
Proficient in statistical analysis and machine learning  
Experience in CI/CD pipelines using GitHub Actions  
Experience in development in both Linux/Unix and Windows environments

## INNOVATIVE SKILLS

Developed a [football analytics website](#) that uses machine learning to predict play calls  
Over 9 years of 3D printing experience, including CAD modeling, 3D printer maintenance, and programming  
Experience creating machine learning models using TensorFlow and Scikit-Learn  
Developed desktop application to automate manufacturing schedules, saving employer over \$20,000 per month in worker productivity  
Developed AI-powered web application to connect Alabama residents to medical services