

# 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
- Managing order queue
- Creating 3D models in CAD software, especially SolidWorks

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

*NGE Equipment*, Tuscaloosa, AL

- Operated and maintained 3D printers for prototyping
- Programmed 3D printers directly with G-code and scripted for Cura
- Coded in Python with Kivy framework

## LEADERSHIP

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

*University of Alabama*, Tuscaloosa, AL

- Negotiating sponsorships from companies
- Scheduling weekly and monthly events of 100+ attendees
- Operating social media accounts and advertising events

## COMPUTER SKILLS

Proficient in Python programming languages  
Proficient in Django and Flask web frameworks  
Proficient in PyQt6 graphical user interface toolkit  
Experience in assembly programming for low-power microcontrollers  
Proficient in Zoho Creator  
Proficient in Adobe Photoshop

## 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, 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