## 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: 3.474/4.000 Honors College

STEM/MBA Program, May 2025

## WORK EXPERIENCE

### **Production Automation Engineer**, 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 C, C++, and Python programming languages

Proficient in PyQt6 graphical user interface toolkit

Proficient in Zoho Creator

Proficient in Microsoft Windows, Android, and iOS

Proficient in Microsoft Office Suite Proficient in Adobe Photoshop

#### **INNOVATIVE SKILLS**

Over 8 years of 3D printing experience, including CAD modeling, printer

maintenance, and direct g-code creation

Education 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 document conversion application for hiring department, saving

employer over \$4,000 per month in worker productivity