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

STEM/MBA Program, May 2025

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 C, C++, and Python programming languages

Proficient in PyQt6 graphical user interface toolkit

Proficient in assembly programming for low-power microcontrollers

Proficient in Zoho Creator

Proficient in Microsoft Windows, Android, and iOS

Proficient in Microsoft Office Suite Proficient in Adobe Photoshop

INNOVATIVE SKILLS

Over 9 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