

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 – present

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