Scott A. Ratchford

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

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Bachelor of Science in Computer Science, May 2024
The University of Alabama, Tuscaloosa, AL
Minors: Mathematics, History   **Honors:** Honors College, cum laude
GPA: 3.542/4.000
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

COMPUTER SKILLS

Proficient in Python programming language
    Web development frameworks: Django, Flask
    Machine learning libraries: TensorFlow, Scikit-Learn
    Statistics and math libraries: NumPy, Pandas
    Desktop development frameworks: PyQt
    Created open-source Python libraries, including object-filtering
Experience with C# development using ASP.NET Core and MVC framework
Experience with HTML, CSS, and JavaScript
Experience with JavaScript frameworks, including jQuery
Proficient in version control with Git and GitHub
Proficient in containerization with Docker and Docker Compose
Proficient in database operations using SQL, PostgreSQL, and MySQL
Experience in development in both Linux/Unix and Windows environments
Experience with cloud computing using DigitalOcean Droplets and Microsoft Azure
Experience in CI/CD using GitHub Actions

INNOVATIVE SKILLS

Developed desktop application to automate manufacturing schedules, saving employer over $20,000 per month in worker productivity
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
Developed AI-powered web app to connect Alabama residents to medical services