

Scott A. Ratchford

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EDUCATION

M.B.A. · The University of Alabama, Tuscaloosa, AL May 2025
B.S. Computer Science · The University of Alabama, Tuscaloosa, AL May 2024
Minors: Mathematics, History · Honors: Honors College, Cum Laude

TECHNICAL SKILLS

Languages	Python (expert) · C# · JavaScript · HTML/CSS · SQL
AI / ML	LLM integration (OpenAI API, local LLMs) · Langflow · TensorFlow · Scikit-Learn · ML model inference · image classification · clustering · linear regression
Web & APIs	Django · Flask · Nginx · Gunicorn · REST APIs · jQuery
Desktop	PyQt / Qt · tkinter
Data	NumPy · Pandas · openpyxl · PostgreSQL · MySQL
DevOps	Docker · Docker Compose · GitHub Actions (CI/CD) · Git · Linux/Unix · DigitalOcean · Azure
Practices	Agile / Scrum · Unit & integration testing · Technical documentation · Code review

EXPERIENCE

Software Developer | [SmartLam North America](#) May 2023 – Present
Dothan, AL

- Building PyQt desktop application to automate Glulam manufacturing scheduling, eliminating manual planning and saving over \$20,000/month in worker productivity
- Developed AI-powered tools using OpenAI APIs and locally hosted LLMs to streamline internal workflows
- Integrating Zoho Creator platform with ERP and manufacturing systems via REST APIs, automating inventory management and Zebra label printing
- Coordinating with external consultants to evaluate and implement cloud software solutions aligned with operational needs
- Writing unit and integration tests; maintained technical documentation for all internal tooling
- Database design and management in PostgreSQL and Zoho Creator

PROJECTS

Pygskin – Football Analytics Platform | [Personal Project](#) 2024

- Built a Django web application that uses ML model inference to predict college football play calls, deployed on DigitalOcean with Nginx/Gunicorn
- Engineered data pipelines with Pandas/NumPy; trained Scikit-Learn models on historical play-by-play datasets

Open-Source Contributions

- Contributed to widely used GitHub Actions
- Published [object-filtering](#) Python module on PyPi
- Contributed to documentation for PostgreSQL

ADDITIONAL

9+ years of 3D printing experience including CAD modeling in SolidWorks, 3D printer maintenance, and G-code/Cura scripting; former technical support specialist for UA College of Engineering