

# Malak Bachri (She/her)

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## EDUCATION

**Southern Arkansas University | Magnolia, AR**

**Aug 2022 – May 2026**

**B.S. in Computer Science, Minor in Mathematics, Certification in Cybersecurity | GPA: 4.0/4.0**

- **Courses:** Data Modeling and Application, Software Engineering, Operating Systems, Computer Architecture, Data Structures & Algorithms, Mobile App Development, UNIX/LINUX, Machine Learning, CyberDefense, Data Science.
- **Honors:** President's List, Honors Student, Awarded departmental merit scholarship for academic excellence.

## TECHNICAL SKILLS

**Languages (ordered by proficiency):** Python (Pandas, Matplotlib, Plotly, PyTorch, OpenCV, pytest, TensorFlow), Java, MySQL, C++, Kotlin, R, Assembly

**Tools and Frameworks:** Docker, Git, Linux, Firebase, React, Node.js, Angular, Flask, Django, n8n, flowise, Selenium, etc.

**Spoken Languages:** English, Spanish, French, Arabic, Darija.

## RELEVANT EXPERIENCE

**Southern Aluminum | Magnolia, AR**

**May 2024 – Jul 2024**

*IT intern*

- Assisted in maintaining and upgrading company **hardware** and **software systems** across departments, ensuring minimal downtime and **data security** for 100+ employees.
- Developed and documented automated scripts and procedures to streamline repetitive IT support tasks.

**DART Summer Coding Bootcamp | Online**

**Jun 2023 – Jul 2023**

- Utilized Python and R with models such as linear & logistic regression, random forests, k-means clustering, and ARIMA time-series analysis to analyze large datasets and present clear, data-driven insights to a jury and peers.

## PROJECTS & PUBLISHED RESEARCH

**Tax Filing Intelligent Assistant | Senior Capstone Project**

**Sep 2025 – Present**

- Built an AI-powered tax-filing system with a team, integrating OCR redaction and LLMs to automatically extract, interpret, and prefill 1040 forms with agent-based guardrail and human-in-the-loop verification.

**Al Shami, A., Bachri, M., Young, C., & Grissom, D. (2025). *Persistent Homology and Segment Anything Model for Automated Localized Medical X-ray Segmentation (PH-SAM)*. In *IntelliSys 2025*, Springer.**

[https://doi.org/10.1007/978-3-031-99965-9\\_37](https://doi.org/10.1007/978-3-031-99965-9_37) | Springer Nature

**Oct 2023 – Present**

- Developed a full PH-SAM pipeline using **Python**, **PyTorch**, **OpenCV**, and **Ripser** for automated segmentation.
- Co-authored a peer-reviewed publication with Springer Nature and presented at IntelliSys 2025 (Amsterdam).
- Won an award at the Arkansas DART Research Competition for innovation and impact.

**A "Timely" Approach To Phishing Detection on Mobile Phones | Ongoing Research**

**Nov 2023 – Present**

- Collaborated with a research team to create a lightweight, feature-engineered multimodal phishing-detection pipeline optimized for real-time accuracy and speed on mobile devices.

## LEADERSHIP EXPERIENCE

**President of the AI Club | Magnolia, AR**

**Sep 2025 – Present**

- Led student members in AI projects (eg. Smart AI assistant), competitions, and certification programs.
- Taught practical use of AI tools such as **Msty**, **n8n**, **Flowise**, and more to enhance technical and creative skills.

**Team Captain at the Collegiate CyberDefense Competition (CCDC) | Online**

**Jan 2025 – Feb 2025**

- Led a team of students in the national Collegiate CyberDefense Competition.