

AHMAD FIRAS AHMAD FER ROUSE

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EDUCATION

The University of Toledo

B.S. in Computer Science & Engineering | GPA: 3.23

Toledo, OH
Graduated: May 2026

PROFESSIONAL EXPERIENCE

Microsoft Solution Developer (Internship)

Jan 2026 – May 2026

First Solar — Perrysburg, OH

- Design and build agentic AI solutions in Microsoft Copilot Studio, translating business requirements into autonomous multi-step workflows using custom connectors, Power Automate flows, and Azure AI services to enable intelligent automation across Microsoft 365 and enterprise systems
- Led a team of two interns on agentic AI projects, coordinating task delegation, code reviews, and delivery milestones; authored comprehensive technical documentation and governance artifacts for all deployed solutions
- Collaborated cross-functionally with business analysts and senior developers to translate business requirements into enterprise-grade automation, applying continuous improvement practices to development workflows

Sports Analytics & Data Science Intern

Oct 2025 – Present

The University of Toledo Athletic Department — Toledo, OH

- Develop ML-powered statistical models in Python and scikit-learn to evaluate roster efficiency and optimize student-athlete benefit allocation; build interactive DOMO dashboards translating complex performance metrics into actionable coaching insights
- Collect, clean, and analyze large game-statistics datasets to surface data-driven recommendations that directly support coaching staff decision-making and game planning

Undergraduate Researcher (Research Co-Op)

May 2025 – Dec 2025

Learning & Optimization in Networks and Graphs Lab | Cyber-Physical-Human Systems Lab — UToledo

- Achieved 72.8% zero-shot UAV deployment success (vs. 43.2% ORB-SLAM3) via MAML across 1,000+ simulated environments with 97.3% HITL intervention success at sub-100ms latency; built Deep Flyer drone training platform using P3O reinforcement learning and YOLO11 stereo vision
- Authored ACM Computing Surveys paper analyzing 37 documented AI system failures across 74 sources, developing the 4-Pillars Taxonomy framework and Contested-Environment Amplifier Model for classifying autonomous AI failure modes

Database Engineer Co-Op

May 2023 – Aug 2023

Park Place Technologies — Toledo, OH

- Architected centralized PostgreSQL security database consolidating data from Active Directory, Cisco AMP, and Microsoft Defender; designed and implemented REST API data ingestion pipelines, accelerating incident response by 15% and improving data integrity by 95%
- Authored technical documentation and revamped disaster recovery protocols; executed quarterly simulation testing achieving zero data loss across all events

AWARDS & HONORS

USRCAP Undergraduate Research Fellowship (\$3,000) | RocketHacks 2025: Best Use of MongoDB Atlas | AIChE Chem-E Car: International Poster & Presentation, Most Innovative Car Design (Worldwide)

TECHNICAL SKILLS

Languages & Dev: Python, SQL (PostgreSQL/PL-SQL), JavaScript, HTML/CSS, C++, Java, Embedded C, MATLAB, Bash/PowerShell

Enterprise & APIs: REST APIs, Power Automate, Azure AI Services, Microsoft Copilot Studio, Microsoft 365, SharePoint, Power Platform, SOAP/Web Services

Databases: PostgreSQL, MySQL, SQLite, MongoDB, AWS S3, pgAdmin 4, RDBMS design, data governance, validation, disaster recovery

ML & Data: PyTorch, TensorFlow, scikit-learn, Airflow, MLflow, Pandas, NumPy, DOMO, Statistical Modeling, AWS (EC2, S3)

Dev Tools & SDLC: Git, Docker, CI/CD, Linux (Ubuntu CLI), LaTeX, CUDA, SSH, unit & system testing, technical documentation, code review

Robotics & Vision: ROS 2, OpenCV, YOLO11, NVIDIA Jetson, Sensor Fusion, RTOS