

Anthony (AJ) Mastrangelo

520-990-2925 | Flagstaff, AZ & Tucson, AZ | US Citizen

aj@mastrangeloplace.com | [GitHub](#) | [LinkedIn](#)

Qualifications Summary

- Microsoft Dynamics 365 Developer with expertise in enterprise automation and workflow optimization.
- Full-stack developer proficient in Python, React.js, Django, and Flask, for scalable web applications and data-driven solutions.
- Skilled in scientific computing and desktop application using Python (PyQt, NumPy, OpenCV) for image processing and data analysis workflows.
- Excellent communication with stakeholders and clients, translating technical requirements into solutions.
- Excelled in multiple ABET certified classes, including automata theory, data structures, and algorithms with practical applications in Python, C, and cross-paradigm development.

Education

Northern Arizona University

Expected Graduation: Spring 2026

Flagstaff, AZ

Computer Science, B.S. – Dean's List

Relevant Experience

1701 Solutions – Data and Solution Integration Intern

June 2023 - Present

Tucson, AZ

- Designed and developed PowerApps solutions integrated with Dynamics 365, Azure DevOps, and Azure services (Storage, Key Vault) to streamline enterprise workflows.
- Built custom apps for Azure resource management and automated deployment pipelines in Azure DevOps APIs.
- Collaborated with clients and C-suite executives to diagnose business needs and architect tailored solutions for complex operational challenges.
- Provided training and support to client teams, ensuring successful adoption and proper system utilization.

Project Examples

NeuroLight – Project Lead

- Developed a Python desktop application using PySide6 for analyzing suprachiasmatic nucleus images and neuronal activity data in circadian rhythm research.
- Implemented image processing algorithms using PyStackReg, OpenCV, and scikit-image for alignment, ROI selection, and neuron detection in time-lapse microscopy.
- Led a 4-person development team through agile sprints, coordinating with research sponsors.

Human Resources Management App – Lead Developer

- Designed & deployed a PowerApps solution to streamline employee data management and HR workflows.
- Integrated Azure Functions and Dynamics 365 for automated task assignments and tracking of employee performance, attendance, and leave requests.