

Andrew Sliva

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Technical Skills

- **Languages:** Python, TypeScript, JavaScript, C, SQL, Bash
- **Cloud & DevOps:** Microsoft Azure, Azure DevOps, Docker, Git, CI/CD Pipelines
- **Frameworks & Libraries:** Flask, Selenium, React, PyTest, PySide6, NumPy, SciPy, OpenCV, Matplotlib
- **Databases & Storage:** PostgreSQL, MongoDB, Redis, Qdrant
- **AI/ML:** RAG, LLM APIs (ChatGPT/LLaMA), Prompt Engineering, n8n Automation

Education

Northern Arizona University

Expected Graduation: Spring 2026

Flagstaff, AZ

B.S. in Computer Science | minor in Cyber security, minor in Informatics

Dean's List

Member, NAU ACM (Association for Computing Machinery) Chapter

Relevant Experience

Undergraduate Research Assistant - RESHAPE LAB, NAU

Flagstaff, AZ (August 2025 - Present)

Lead Research Assistant - Open Source Contribution Assistant Project

- Contributing to RAG-powered conversational assistant for OSS developer onboarding, processing 700K+ documents from repositories like Firefox using Python, n8n automation, and MCP.
- Leading systematic evaluation of multiple RAG architectures across retrieval quality, groundedness, and performance metrics through benchmarking and user studies.
- Building evaluation infrastructure with Qdrant vector database, Redis, and PostgreSQL to support comparative analysis and scalable workflow automation.

Research Assistant - LLM-Mediated Programming Education Project

- Developed and deployed conversational agent using Python, TypeScript, and Docker on Microsoft Azure, integrating ChatGPT/LLaMA APIs for programming education research with 60+ student

participants.

- Conducting laboratory studies with a 4-person research team and analyzing behavioral data to assess effectiveness of LLM-mediated learning approaches.

Software Engineering Capstone - NeuroLight Application

Flagstaff, AZ (*August 2025 - May 2026*)

- Developing open-source PySide6 desktop application to advance circadian rhythm research, enabling neuroscientists to analyze SCN neuronal activity in microscopy time-lapse data; collaborating with clients from OHSU and NAU.
- Implementing computational image analysis pipelines using NumPy, SciPy, OpenCV, and Matplotlib to quantify fluorescence intensity, circadian parameters, and neuronal synchrony across 200+ TIF image sequences.
- Designing extensible plugin architecture to support community contributions and future analysis modules, enabling reproducible research workflows for the broader neuroscience research community.

Python Test Automation Developer - Epicentral Labs DAO LLC,

Remote / Flagstaff, AZ (*January 2025- June 2025*)

- Built and maintained automated test suites using Python, Selenium, and PyTest across 3 client projects, improving code quality and reducing manual testing effort.
- Automated internal QA workflows and contributed to continuous integration testing pipelines across multiple client projects.
- Supported startup development initiatives by building tools that streamline software quality checks, contributing to Epicentral's mission of driving innovation and digital transformation.

Project Examples

[Hashtag AI](#) | Flask, OpenAI GPT-4o, Python | GitHub

- Built web app integrating GPT-4o API for automated hashtag generation from uploaded images, demonstrating AI integration and full-stack development.

[Internet Speed Monitor Bot](#) | Python, Selenium | GitHub

- Automated ISP performance tracking and complaint submission, reducing manual reporting time through scheduled testing.

[Zillow Apartment Scraper Bot](#) | Python, BeautifulSoup, Selenium

- Engineered web scraper automating apartment search workflow by extracting rental data and populating Google Forms.