

Mason Alcock

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PROFESSIONAL SUMMARY

Motivated Computer Science student at the University of Central Florida with hands-on experience in programming, database management, and process automation. Proficient in Python, SQL, and HTML. Skilled at developing practical tools that streamline and automate data workflows, including a program that automates product information retrieval and updates data files and product listing details. Passionate about problem-solving, learning new technologies, and applying critical thinking to build efficient, scalable software solutions. Seeking opportunities to contribute to software development and AI projects while expanding technical expertise.

EDUCATION

University of Central Florida

Bachelor of Science in Computer Science

Orlando, FL

12/2026

RELEVANT COURSEWORK: Computer Science 1, Computer Logic and Organization, Object Oriented Programming, and Technical Writing

College of Central Florida

Associate of Arts in Computer Science

Ocala, FL

05/2024

SKILLS AND QUALIFICATIONS

- Programming languages: Python, PHP, SQL, HTML, JavaScript, Java, C, GDScript
- Utilities: Microsoft Office, Visual Studio Code, Vim, ChatGPT, Google Gemini
- Adaptive Critical Thinker
- Effective Communicator
- Technical Writing
- Proficient at Debugging

WORK EXPERIENCE

BAI Distributors

Data Entry Specialist

Ocala, Florida

6/2022 to Present

- Manually updated data files while writing a program in Python to automate data entry with minimal supervision and guidance.
- Designed a Python program to automate item file updates and online product listing details.
- Updated item files and online product listing details.
- Reverse-engineered database design to determine how data is stored.
- Integrated OpenAI's API to summarize product information and generate keywords.

PROJECTS

Recipe Manager Application

05/2025 to 07/2025

- Python program to automatically manage, formats and save recipes as a DOCX file.

C.O.O.K.I.E. AI – GemiKnights Hackathon

06/2025

- Full-stack web application that uses the Google Gemini API to generate custom recipes based on a user's dietary restrictions.
- Utilized React.JS for the front-end and Node.JS for the backend.
- Integrates AI image generation, regenerating a recipe, and recipe printing.
- Worked in a team of three using Git and Github for version control and code sharing.

Audio Trimming Utility

12/2025

- Built a Python-based audio trimming tool using the pydub library for segment extraction and processing.
- Implemented command-line argument handling for user-defined timestamps and durations.
- Packaged the application into a standalone executable with PyInstaller for easy distribution.

ACHIEVEMENT AND LEADERSHIP

- Team member of the Forest High School computer science club involving the development of a Python web application for the Samsung Solve for Tomorrow competition.
- Completed AP Computer Science Principles at Forest High School with Python experience and JavaScript experience.
- Collaborated as a team member on Pickcraft, a Java-based Minecraft server, developing mini-games that enhance player engagement.