# Samuel Ebaugh

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## EDUCATION

**The University of Central Florida** | Orlando, FL
*B.S. in Computer Science* **May 2026**
- **Relevant Courses:** Machine Learning, Cyber Defense Analysis, Object-Oriented Software Development

**Eastern Florida State College** | Melbourne, FL
*Associate of Arts* **Aug 2022**

## PROJECTS

**SharkVision (AI / Computer Vision / Audio Analysis) —** 🥇 *First Place Overall – SharkByte Hackathon 2025* **Nov 2025**
- Developed an AI-powered tool that analyzes presentation delivery, body language, and speech using multimodal data (video, audio, and slides).
- Built with Next.js (React + TypeScript) and FastAPI (Python), connected via WebSockets for real-time streaming.
- Integrated Gemini API, MediaPipe Holistic, and Speech-to-Text for analysis and feedback.
- Achieved real-time multimodal analysis (<100 ms latency) across webcam, audio, and slide inputs using Gemini and MediaPipe.

**Ask Knightro (Node.js, Gemini API, RAG, NLP)** **Jun 2025**
- Developed a solo AI chatbot for UCF  using Google Gemini API and a Retrieval-Augmented Generation pipeline
- Built a full-stack application to parse and query thousands of university documents via a custom knowledge base
- Integrated NLP techniques and prompt engineering to improve reasoning and response quality

**ScholarKnights (React.js, Node.js, MongoDB, Flutter/Dart)** **Mar 2025**
- Engineered backend architecture: designed RESTful APIs and managed MongoDB schema
- Created Gantt charts and sequence diagrams to organize team workflow
- Developed a complete mobile interface independently using Flutter and Dart

## EXPERIENCE

**Research & Development Intern | OneEthos |** Remote - Orlando, FL **Aug 2025 - Present**
- Led development of a nationwide Small Business Portal for Climate First Bank, architecting an automated ETL pipeline to populate and verify millions of business records.
- Researched and implemented the most cost-effective and accurate methods for populating and verifying the national small-business database, balancing API efficiency and data quality
- Integrated AI classification and verification systems (OpenAI, Gemini) to flag and score mission-aligned businesses.
- Coordinated Agile workflows across engineering, design, and compliance using Jira and PRDs.

**Shift Lead | BurgerFi |** Orlando, FL **Oct 2023 - Dec 2024**
- Supervised operations, trained new staff, and optimized POS workflows to reduce order errors and wait times.

**Percussion Instructor | Eau Gallie High School |** Melbourne, FL **May 2021 - Dec 2021**
- Taught percussion fundamentals and led competitive performance rehearsals.

## TECHNICAL SKILLS

**Languages**: Python, C/C++, C#, Java, JavaScript, TypeScript, Dart, PHP, SQL, Haskell, HTML/CSS
**Frameworks/Tools**: React, Next.js, Node.js, Express, Flutter, Tailwind, MongoDB, MySQL, Docker, GitHub, Figma, Postman
**AI & Systems**: Gemini API, OpenAI API, Prompt Engineering, RAG, NLP, LangChain, Linux, AWS, VirtualBox/VMWare, OpenCV

## CERTIFICATIONS AND INVOLVEMENT

- 🥇 **First Place Overall –** SharkByte Hackathon 2025, Miami Dade College
- **AWS Academy Cloud Foundations & AWS Academy Cloud Security Foundations** – AWS Academy Graduate 2024
- **TestOut CyberDefense Pro Certificate** – TestOut Graduate 2024
- **Competitor**, eCitadel Open 2025 & UCF GemiKnights Hackathon