Eric Brown

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EDUCATION

University of Florida, Herbert Wertheim College of Engineering   **May 2026**
Bachelor of Science in Computer Science (3.89 GPA)   Gainesville, FL

- Minor: French and Francophone Studies
- Relevant Coursework: Data Structures and Algorithms, Computer Networking, Database Systems, Operating Systems
- Florida-Canada Linkage Award recipient
- SEC H. Boyd McWhorter Postgraduate Scholarship

SKILLS

- Programming: Python, C++, Typescript, SQL, Java, Javascript, HTML, CSS, Matlab
- Frameworks/Libraries: React, TensorFlow, PyTorch, Scikit-learn, Pandas, Numpy, OpenCV, Matplotlib
- Tools: Machine Learning, Linux, Git, Github, GDB, Microsoft Office, REST APIs, Docker, Version Control
- Bilingual: Fluent in English and French
- Strong communication skills, time management, and leadership due to rigorous academic and athletic schedule
- Eager to learn new skills and coding languages, always problem-solving and learning, top notch work-ethic

WORK EXPERIENCE

Fire Neural Network (FNN)   **May 2025- Sept 2025**
Computer Science & Data Visualization Intern   Gainesville, FL

- Collaborated with AI researchers on wildfire prevention through lightning detection, with project management
- Processed, troubleshooted and analyzed binary lightning strike data using Python, Pandas, NumPy
- Created interactive real-time visualizations (Matplotlib, OpenCV) overlaid on slow-motion lighting strike videos
- Work featured on The Weather Channel to explain HF lightning frequency patterns

PROJECTS

IPPD—Integrated Product & Process Design (UF)   **Aug 2025- Present**
Drone-Based 3D Mapping System   Gainesville, FL

- Collaborated with 7 engineers and sponsor JWM Engineering to build an autonomous drone for 3D mapping
- Developed software in Python and C++, implementing unit testing, debugging and version control
- Applied Agile development in a year-long, industry-sponsored engineering design project

Recruiting AI Agent (n8n based)   **Jun 2025- Present**
Personal Project   Gainesville, FL

- Built an AI-powered recruiting assistant with n8n automation workflows
- Integrated LLM APIs to streamline candidate screening and email management

SpeedJumpr   **May 2025- Aug 2025**
Computer Vision & Data Analysis Contributor   Gainesville, FL

- Evaluated a novel swimming starting block with Python and OpenCV for motion tracking
- Developed algorithms to measure position and velocity on SpeedJumpr vs standard blocks
- Proved faster takeoff speeds through data visualization to support product validation for international competition

STUDENT-ATHLETE EXPERIENCE

University of Florida Swimming & Diving (NCAA Division I)   **Aug 2022- Present**

- Team Captain; selected by coaching staff to be a leader and promote communication between teammates and coaches
- Dedicated 20+ hours to practice, competition, and swim activities while excelling academically in a full course load.
- Competed in SEC and NCAA Championships (2023-2025)

AWARDS & HONORS

- Represented Canada at World Aquatic Championships in Budapest 2022, Japan 2023 and Singapore 2025
- Canadian National Swimming Champion – 400m, 800m & 1500m Freestyle (2021-2024)
- Member of the Canadian Senior National Swimming Team
- University of Florida Honor Roll (2022-Present)
- SEC Academic Honor Roll (2022-2025)