

# Jason Sacerio

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## EDUCATION

<b>University of Central Florida</b> <i>Bachelor of Science in Computer Science, Minor in Math</i>	Orlando, FL Spring 2027
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## EXPERIENCE

<b>Researcher</b> <i>KSRP@UCF</i>	Sept. 2024 - Present Sunrise, FL
<ul style="list-style-type: none"><li>Conducted research on security and fault tolerance of <b>LLMs for embedded systems</b>, evaluating the impact of soft errors and adversarial attacks using real hardware and Gem5 simulation</li><li>Analyzed mitigation strategies for LLM vulnerabilities, including memory bit-flip attacks and novel embedded-specific attack vectors, across platforms such as embedded boards and mobile devices (Android/iOS)</li></ul>	
<b>Software Engineer Intern</b> <i>Blackstone</i>	Apr. 2024 - Sept. 2024 Miami, FL
<ul style="list-style-type: none"><li>Invited as <b>1 of 20</b> university students to participate in gaining valuable insight and mentorship from engineers at Blackstone</li><li>Optimized <b>Python-based</b> back-end for the finance department, refactoring critical data pipelines and improving database queries, which reduced end-of-day report generation time by <b>30%</b> and increased the reliability of financial data processing.</li></ul>	
<b>Software Engineer Intern</b> <i>Capitol Steel Structures</i>	Jan. 2023 – Aug. 2023 Miami, FL
<ul style="list-style-type: none"><li>Solely designed a comprehensive customer database using <b>MongoDB and Django</b>, streamlining data management and operational workflows to support increased client volume.</li><li>Built the company's first e-commerce website using <b>Python, HTML/CSS, and Stripe</b> for payment processing, enabling online sales of steel products and generating <b>\$273,000</b> in revenue in the first year.</li></ul>	
<b>Divison Lead</b> <i>MDC Esports</i>	Jan. 2023 - Dec. 2023 Miami, FL
<ul style="list-style-type: none"><li>Orchestrated all project phases, managing large-scale events with up to <b>30</b> attendees and ensuring flawless execution through strategic design and scheduling.</li><li>Directed a <b>12</b>-member team in a previously unranked program, elevating it to national recognition, achieving <b>Top 200</b> in the United States and <b>Top 50</b> in the Southeast.</li></ul>	

## PROJECTS

<b>ZPM-TUNA</b>   <i>C, Python, ROS2, Arduino, Flutter, Dart</i>	Oct. 2025 - Present
<ul style="list-style-type: none"><li>Won <b>1st place</b> in <b>Pheratech Systems ROS2 Challenge</b> during Knight Hacks VIII (2025)</li><li>Developed <b>ROS2 based autonomous swarm drones</b> for evacuation scenarios, enabling coordinated navigation through simulated fire environments to locate optimal real-time exits</li><li>Implemented inter-robot communication and adaptive pathfinding, allowing agents to share blocked routes and improve evacuation efficiency over time.</li><li>Integrated a <b>computer vision based human detection model</b> using onboard camera data to identify and track occupants in low visibility emergency environments</li></ul>	
<b>Face2Learn</b>   <i>Python, TensorFlow, Javascript, pyTorch, Gemini API, Flask</i>	Mar 2024
<ul style="list-style-type: none"><li>Built Face2Learn Chrome extension in under 36 hours (team of 3), integrating <b>TensorFlow</b> emotion recognition (<b>65% accuracy</b>), <b>Haar cascade detection</b>, and Canvas API overlays for real-time mood analysis on YouTube.</li><li>Engineered a full-stack workflow combining a <b>Flask backend (Python, TensorFlow, Gemini API)</b> with a <b>TailwindCSS/JS</b> frontend, delivering a lightweight, accessible, and privacy-focused user experience.</li></ul>	

## TECHNICAL SKILLS

**Languages:** C, C++, Rust, Python, Java, Javascript, Typescript, SQL, HTML/CSS

**Libraries/Frameworks:** Django, Tailwind, MongoDB, Pandas, NumPy, Matplotlib, ROS2

**Developer Tools:** Git, Docker, Jupyter Notebook, Visual Studio, PyCharm, CLion, Eclipse, Kubernetes, IDA Pro