Maloudnee Marcier

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Education

University of Central Florida — **June 2023 – December 2026**
Bachelor of Science in Computer Science; Minor in Mathematics — *Orlando, FL*
Awards: George Snow Scholar, STRONG AI Scholar, Dean's List (2x)

Projects

Vue Voiture | *Python, SQL, Scikit-learn, Numpy, Pandas* — **September 2025 – Present**
- Designing a predictive model to forecast potential car issues using historical maintenance data.
- Implementing supervised ML models and evaluating accuracy to optimize system performance.
- Integrating backend with a prototype mobile app to provide real-time diagnostic alerts to users.

Tear of Fate | *Phaser.js, TensorFlow.js, Google ADK, WebSockets* — **October 2025**
- Built a 2D emotion-driven game during KnighHacks 2025 that transforms real-time facial expressions into gameplay actions within a 36-hour hackathon.
- Integrated Face API using TensorFlow.js to detect player emotions and trigger combat mechanics such as attacks and state changes.
- Implemented Google ADK with an agent-to-agent architecture, enabling AI-controlled enemies to learn, coordinate, and adapt across levels via WebSockets.
- Collaborated in a team of four, focusing on emotional AI design, real-time communication systems, and modular game architecture.

Bon Voyage | *Swift, SQLite* — **September 2025 – October 2025**
- Developed an iOS budgeting app with 5+ integrated modules for trip planning and real-time expense monitoring.
- Designed a responsive SwiftUI interface and implemented data persistence via SQLite.
- Enhanced usability through clean, modular code and intuitive navigation structure.

Technical Skills

Languages: Python, Java, C, Swift, HTML, CSS, JavaScript, Kotlin
Frameworks & Libraries: React.js, Express.js, Flask, Bootstrap, Scikit-learn, NumPy, Pandas, Jetpack Compose
Tools & Technologies: Git, GitHub, Google Gemini API, SQLite, Android Studio

Work Experience

Interactive Computing Experiences Research Cluster — **October 2025 – Present**
Undergraduate Research Assistant — *Orlando, FL*
- Synthesized AI research papers to architect data collection strategies for generative AI models focused on assistive technologies.
- Developed Python-based data pipelines to transform raw research data into structured formats (Excel/CSV) for model ingestion and training.
- Collaborated with lab peers to refine AI training sets, specifically targeting the improvement of real-world accessibility for users with speech impairments.

Leadership / Professional Development

National Society of Black Engineers — **September 2024 – Present**
Member — *University of Central Florida*
- Enhanced professional development by participating in workshops focused on engineering soft skills and project management.
- Leveraged professional networking events to connect with industry engineers and expand career opportunities.

KnightHacks — **January 2024 – Present**
Mentee — *University of Central Florida*
- Actively participated as a mentee in club activities and hackathons, receiving guidance on team collaboration and project development.
- Enhanced technical expertise by attending workshops focused on software development tools and emerging technologies.

Girls Who Code — **January 2024 – Present**
Member — *University of Central Florida*
- Collaborated with fellow club members to improve the club's website, gaining practical experience with HTML/CSS and JavaScript web development frameworks.
- Strengthened foundational programming skills through participation in focused workshops on best coding practices and emerging technologies.

Relevant Coursework

Data Structures & Algorithms I/II, Algorithms for Machine Learning, Artificial Intelligence, Systems Software, Object-Oriented Programming, Discrete Mathematics, Calculus I/II