

Mustapha M. Strachan

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EDUCATION

University of Central Florida

Expected Spring 2028

Bachelor of Science in Computer Science | GPA: 3.73

Orlando, FL

- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Computer Organization, Systems Software, Discrete Structures, Calculus I & II
- Honors & Involvement: Dean's List, Honor Roll, Knight Hacks, National Society of Black Engineers, UCF DARTS

EXPERIENCE

Quickstart SimJam Intern

June 2026 - July 2026

UCF Institute for Simulation and Training (METIL)

Orlando, FL

- Collaborated on a QIF-to-Unity pipeline that converts QIF XML geometry and topology into selectable Unity mesh data
- Implemented and debugged C++ parsing and OpenCascade translation components for QIF curves, surfaces, and B-rep geometry
- Used Git, GitHub, Visual Studio, and Unity to integrate native C++ processing with a C# importer workflow
- Collaborated with teammates across geometry import, feature selection, and product manufacturing information display

SOAR Program Peer Mentor

May 2026 - Present

University of Central Florida

Orlando, FL

- Mentor incoming students and support their transition to university academics, resources, and campus life
- Facilitate student engagement activities, one-on-one mentoring sessions, and professional communication with students and staff
- Share program updates through Microsoft Teams and email while tracking student participation and attendance

PROJECTS

MLB Game Prediction System | Python, FastAPI, Next.js, TypeScript, Machine Learning

April 2026 - Present

- Built a machine learning system to predict MLB game winners and confidence probabilities from historical team and game data
- Developed a FastAPI REST backend and Next.js frontend to display daily matchups, predictions, team data, and model metrics
- Evaluated predictions with accuracy and Brier score while maintaining a results history for performance tracking
- Integrated team records, probable pitchers, batting averages, ERA, game times, and confidence labels into the interface

LEADERSHIP & ACTIVITIES

Campus Involvement: Knight Hacks, National Society of Black Engineers, Alpha Phi Alpha Fraternity Incorporated, UCF DARTS, NAACP, UCF Intramural Sports

Honors: Dean's List and UCF Honor Roll

TECHNICAL SKILLS

Languages: C, C++, C#, Python, Java, TypeScript, HTML/CSS

Frameworks: FastAPI, Next.js, React

Developer Tools: Git, GitHub, Docker, Unity, OpenCascade, Visual Studio, VS Code, Linux

Concepts: Data Structures & Algorithms, Object-Oriented Programming, REST APIs, Machine Learning, XML Parsing, 3D Mesh Processing