JOHN SULLIVAN

Visionary Machine Learning Architect and Software Engineer

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EDUCATION

University of Central Florida Burnett Honors College   Orlando, FL
Bachelor of Computer Science, Minor in Statistics   Aug 2024 – Dec 2027
Emphasis: Machine Learning and Software Engineering, Major GPA: 3.85, 68 credits completed

HONORS

Dean's List, Florida Bright Futures Academic Scholar, U-Lead Scholars Program, AP Scholar with Distinction, Capstone Diploma

PROFESSIONAL EXPERIENCE

Computer Science Intern   Mar 2025 – Present
Siemens Energy

- Building website architecture for Innovation Center Orlando.
- Created Full-Stack Competitive Analysis Tool using search API, webscraping, and LLM integration.
- Developed Digital Operation Landscape for a segment of the company with 400+ employees.

Undergraduate AI Research   Aug 2024 – Jan 2025
University of Central Florida

- Contributed to the development and optimization of Large Language Models (LLMs).
- Developed virtual AI assistants using Microsoft Rocketbox.

IT Cybersecurity Intern   Jun 2024 – Aug 2024
The School District of Palm Beach County

- Placed Top 3 in three competitive CTF tournaments and experimented with Sub-GHz, Infrared, and RFID frequencies.
- Produced district-wide Multi-Factor Authentication (MFA) training videos.

VOLUNTEER EXPERIENCE (350+ HOURS)

Local UNICEF Chapter   Sep 2022 – May 2024

- Managed 4 monthly large-scale social events throughout the 2024 school year. Vice President of 150+ members.
- Donated 2,290 pairs of shoes to Funds2Org.

Barrels4Better Non-profit   Jun 2023 – May 2024

- Organized multiple beach cleanups in the South Florida area as Vice President.

Math, Science, & Engineering (MSE) Jumpstart Instructor   Jul 2023

- Organized and instructed classrooms of incoming first-year students into Suncoast High School's MSE Program.
- Introduced 60+ first-year students to AP Physics I and AP Pre-Calculus.

PROJECTS

Data Science STEM Waiver Initiative   Feb 2025 – Present

- Utilizing Jupyter Notebooks, Pandas, and Regex to collect and organize data from federal reports.

Medical/First Response Chatbot   Jan 2025

- Used a variety of open-source materials and resources such as langchain, chanlit, pydantic, and AIAnytime.
- Created a locally hosted chatbot capable of answering any medical and first-aid questions.

***Studyhall*, Student-created Study App**   Jan 2024 – Apr 2024

- Utilized "Waterfall" project management strategies, front-end, and back-end programming techniques in a small team.
- Built a Java project with the main focus of helping students with studying tactics.
- Used tools in development such as Eclipse & WindowBuilder.

***Preventing Mass Wasting Destruction in the Rural Andean Region*, Research Study**   Aug 2023 – Apr 2024

- Worked with lead volcanologists, seismologists from the University of Washington and the USGS.
- Analyzed which computer systems or engineering solution worked most effectively in the rural villages of the Andes.

SKILLS

Programming Languages: Java, SQL, Python, HTML, CSS, C, JavaScript

Tools: Photoshop & Premiere Pro (8 years), Daz3D & Blender (6 years), VS Code, InDesign, Microsoft SQL Server, Unity

Languages: Native English, High proficiency Polish, Workplace proficiency German and Spanish

Certifications: University of Michigan Python Data Structures Coursera, SQL Server, Java programming, Certified Internet Web (CIW) Internet Business Associate, Certified Internet Web (CIW) Site Development Associate