

ARYAN SARASWAT, BCSC

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PROFESSIONAL SUMMARY

Bachelor Computer Science (BCS) candidate at the University of Central Florida with over 3 years of experience specializing in coding, app development, system programming, scripting, and automation. Demonstrating strong proficiency in software engineering, data structures, algorithms, and problem resolution, coupled with proven leadership in driving meaningful projects from conception to completion

SKILLS

Coding Languages: C, Python, Java, MIPS Assembly, HTML, CSS, PHP, JavaScript/Typescript

Languages: English, Hindi, Gujarati

Experienced platforms/frameworks: AWS, Next.js, Node.js, React, TensorFlow Vite, Microsoft Office, AutoCAD, SolidWorks, IDLE, Visual Studio Code

EDUCATION

University of Central Florida- Orlando, FL

Bachelor of Science in Computer Science, June 2026, GPA: 3.5

- **Organizational Involvement:** Knight Hacks, Artificial Intelligence Club, Association for Computing Machinery, UCF Students for Humane Technology
- **Relevant Coursework:** Data Structures & Algorithms I & II, Processes for Object-Oriented Software Design, Algorithms for Machine Learning, Systems Software, Operating Systems, Computer Logic & Organization, Security in Computing, Web & User Experience (UI/UX)

PROJECTS

CloudSaver (Project Manager)

10/2025

- Developed a full-stack cloud cost optimization tool that analyzes cloud billing CSVs, providing LLM-driven, human-readable recommendations and cost-saving actions.
- Engineered an asynchronous backend using **FastAPI**, **Pandas**, **Uvicorn**, and **asyncio**, reducing analysis latency nearly 10x via concurrent LLM calls.
- Designed a modern **React + Vite** frontend with visual analytics using **Chart.js**, enhancing user experience and accessibility.

PRINT Automation (Project Manager) - Capstone Project (Ongoing)

09/2025-

- Lead a 5-person team in updating and improving the **UCF CHDR PRINT** research site, with adding and updating features for the backend and frontend, such as key word analysis, topic modeling, and a refined search.
- Implemented a **Natural Language Query** feature to make researching more intuitive for users.
- Reconciled the MySQL PRINT database with their older databases to get rid of duplicate or missing data and added automated exports to partnered organizations.

Sign Language Detector (Python, TensorFlow)

08/2025

- Developed real-time hand gesture recognition model using TensorFlow Object Detection API; achieved live classification and detection accuracy for a varying amount of sign language gestures

WORK/INTERNSHIP EXPERIENCE

Motorola| Fort Lauderdale, FL

Shadowing Intern June 2022 - June 2022

- Shadowed senior software engineers and directors, engaged in debugging codes, process optimization, and feature development within complex systems. Gained hands-on experience in testing, including drop tests for radios
- Delivered a presentation on innovative technological solutions for natural disaster relief and preparedness, demonstrating both technical proficiency and strategic thinking

MATE ROV Robotics Competition (Regional)| Weston, FL

Team Lead August 2021 - May 2022

- Led development of custom circuit boards and integrated electronic triggers for the control system of a submersible robot in the MATE ROV Robotics regional competition
- Designed and soldered circuit boards, seamlessly connecting components within a control box to optimize robot's maneuverability and precision during underwater operations
- Engineered a submersible robot utilizing 3D-printed components, PVC pipes, motors, and custom claws, equipped with attachable cameras and netting to perform complex underwater tasks with precision and stability