

AAYUSH SWAMI

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SUMMARY

Enthusiastic Computer Science Sophomore at Arizona State University with a strong academic background and web development skills. Proficient in various programming languages and tools, I blend technical expertise with exceptional customer service experience. Recognized for leadership, awarded scholarships, and known for contributing to impactful projects, committed to excellence in both technology and client engagement.

EDUCATION

Bachelor's in computer science (Software Engineering)

Graduating May 2027

Arizona State University, Tempe, AZ

GPA 3.87 /4.00

Ira Fulton School of Engineering

Relevant coursework: Calculus I/ II/III, Intro to Programming Languages, Principles of Programming, Object Oriented-Programming, Design Digital Fundamental, Discrete Mathematics, Assembly Language, Intro to software Engineering

TECHNICAL SKILLS

Design and Modeling Tools: WordPress, Microsoft Office Tools, Figma, Adobe, Linux Operating System, Slack, Outlook, Salesforce, workday, Air table

Programming: Java, Python (Pandas, NumPy), HTML, CSS, MySQL, MATLAB, JavaScript, Scheme, C, C++, Prolog, Latex, Swift, MERN Stack

PROFESSIONAL EXPERIENCE

Arizona State University, Tempe, AZ: Student Engagement Peer Coordinator

May 2024 - Present

- Manage key administrative tasks for student organizations, coordinating logistics and supply orders to ensure event success.
- Maintain records and generate reports to support strategic alignment and efficient resource management.
- Utilize Salesforce and Workday to streamline event planning processes, Increasing communication and participant engagement.

Nexus Software, Remote: Web Developer Intern

December 2023 - April 2024

- Excelled in developing innovative web solutions, demonstrating advanced programming skills and creative problem-solving.
- Spearheaded key projects, contributing to significant improvements in web functionality and user experience.
- Collaborated effectively with teams, demonstrating strong communication skills, and delivering high-quality results.

ACADEMIC PROJECTS

Project Spyn, Lego Automated Car

August - December 2023

Spearheaded creative development of 'Lego Spyn'

- Engineered with precision, integrating sophisticated software for seamless real-time monitoring with the use of **MATLAB** and **Java**.
- Boosted operational efficiency and data precision, representing advanced problem-solving and technical acumen.

Java Based Calculator

December 2023

Expertly developed a sophisticated Java-based calculator

- Innovatively employed **HTML and CSS** to create an intuitive, user-friendly interface, boosting usability and design aesthetics.
- Demonstrated adept problem-solving skills in implementing complex mathematical functions and user interactions.

NASA's International Space App Challenge, Unlocking the Secrets of the Sun

August 2023 - September 2023

Created a Website for the NASA Space App Challenge

- Masterfully utilized cutting-edge technology to develop a user-centric application, enhancing user engagement and experience.
- Excelled in cross-functional teamwork, driving project success through effective collaboration and leadership skills.

OTHER WORK EXPERIENCE

Rolston lab, Tempe AZ: Undergraduate Researcher **August 2024 - Present**

- Developing machine learning models in Python to predict lithium-ion battery lifespan using Electrochemical Impedance Spectroscopy (EIS) data.
- Utilizing Python libraries such as Scikit-learn, TensorFlow, Pandas, and NumPy for data analysis, feature selection, and model optimization.
- Collaborating with a research team to refine battery state-of-health prediction models, leveraging Gaussian Process Regression (GPR) and other ML techniques.

Ira Fulton School of Engineering, Tempe, AZ: Fulton Ambassador **December 2023 - Present**

- Representing the Fulton community as an ambassador, communicating and upholding organization's values.
- Skillfully organizes and leads various community events, presenting strong leadership and event management capabilities.
- Engages with new and prospective students, providing insightful guidance and sharing knowledge about the Fulton community.

Programming and Activity Board, Tempe, AZ: Event Planning Intern **November 2023 - January 2024**

- Dynamic and meticulous, with a keen focus on crafting unforgettable event experiences.
- Strengthened comprehensive event management, from ideation to flawless execution.
- Applied strong organizational and communication skills to advance PAB's event success.

ACHIEVEMENTS

Dean's List, Ira Fulton School of Engineering.	2023,2024
Fulton Ambassador, Fulton School of Engineering	December 2023
Environmental leader of the school	2022
Runner up in NASA's International Space App Challenge	2021