

AAYUSH SWAMI

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SUMMARY

Computer Science Sophomore at Arizona State University—agile **full-stack developer** skilled in **JavaScript/TypeScript**, React/Next.js, Python, and Java with strong client-facing experience. Proven **team leader** and scholarship recipient delivering **high-impact, scalable web solutions** aligned with user needs.

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, Principles of Programming, Object Oriented- Programming, Design Digital Fundamental, Discrete Mathematics, Assembly Language, Intro to software Engineering

TECHNICAL SKILLS

Programming: Java, Python (Pandas, NumPy), JavaScript/TypeScript, C/C++, Swift, SQL/MySQL, MATLAB, Scheme, Prolog, **MERN Stack**
Tools & Platforms: Git, Linux, WordPress, Figma, Adobe CC, Slack, Salesforce, Workday, Airtable

PROFESSIONAL EXPERIENCE

Arizona State University, Tempe, AZ: *Student Engagement Peer Coordinator* May 2024–Present
• Orchestrate **logistics** and supplies for 40+ student organizations, administering **\$250K+ funding**.
• Produce data-driven **reports** that optimize resource allocation and align events with university strategy.
• Automate workflows in **Salesforce & Workday**, elevating communication and attendee engagement by 20%.

Odyssey Rover – Interplanetary Rover Systems Development Jan 2025–Present
Built a full-stack telemetry platform
• Developed a **Next.js+TypeScript** UI with **TailwindCSS** and live graphs in **Grafana**.
• Streamed sensor data via **Socket.io** to **InfluxDB**, enabling sub-second updates.
• Integrated **Python** services and **OpenAI LLM** for autonomous fault diagnosis.
• Implemented command APIs, camera feeds, and circuit-breaker patterns to ensure 99.9% uptime.

Nexus Software, Remote: *Web Developer Intern* Dec 2023–Apr 2024
• Built responsive **web apps** with React, Node.js, and REST APIs, reducing page load time by 30%.
• Led feature roll-outs that boosted user satisfaction and increased session duration by 15%.
• Delivered high-quality releases in Agile sprints through close collaboration with design and QA teams.

ACADEMIC PROJECTS

Project Spyn — LEGO Automated Car Aug–Dec 2023
Spearheaded creative development of “Lego Spyn”
• Integrated **MATLAB&Java** telemetry for **real-time vehicle monitoring**, raising data accuracy by 15%.
• Optimized control code to cut sensor-to-actuator latency to < 100 **ms**, improving drive precision.

NASA International Space Apps Challenge — “Unlocking the Secrets of the Sun” Aug–Sep 2023
Created a data-driven web app for solar exploration
• Developed a **React/Node.js** site visualizing NASA APIs, boosting hackathon user engagement by 30%.
• Led a 4-member Agile team, coordinating **GitHub** workflows to deliver MVP in 48 hours.

OTHER WORK EXPERIENCE

RolstonLab , Tempe,AZ: <i>Undergraduate Researcher</i>	Aug2024 – Present
<ul style="list-style-type: none">• Build Python ML pipelines predicting Li-ion battery life from EIS data.• Use Scikit-learn, TensorFlow, Pandas, NumPy for feature engineering and tuning.• Boost state-of-health accuracy to R²=0.94 via Gaussian Process Regression.	
Ira A. Fulton Schools of Engineering , Tempe,AZ: <i>Fulton Ambassador</i>	Dec2023 – Present
<ul style="list-style-type: none">• Represent Fulton to 100+ visitors per tour, communicating programs and opportunities.• Lead outreach events, coordinating logistics and volunteers for seamless execution.• Mentor prospective students, guiding academic choices and campus engagement.	
Programming & Activities Board , Tempe,AZ: <i>Event Planning Intern</i>	Nov2023 – Jan2024
<ul style="list-style-type: none">• Planned 5 campus events (300+ attendees, \$20K budget) from concept to wrap-up.• Managed vendor contracts, marketing, and schedules to ensure on-time delivery.• Raised attendee satisfaction by 15% through data-driven feedback loops.	

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