

# KAVISH SHAH

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## EDUCATION

**Arizona State University - Barrett, The Honors College (3.71/4.00)** **Expected Graduation May 2026**  
Bachelor of Science Honors in Computer Science **Tempe, Arizona**  
**Coursework:** Data Structures and Algorithms, Software Engineering, Linear Algebra, Computer Architecture, Assembly Language Programming, Operating Systems, Information Assurance, Theory of Computation

## WORK EXPERIENCE

**Residential Peer Mentor** **August 2024 - Present**  
Ira A. Fulton Schools of Engineering **Tempe, Arizona**

- Led a team of peers to develop an interactive workshop series for new engineering students, enhancing engagement and attendance by over 40 participants during each event held throughout the semester.
- Collaborated with a team of 17 students during engineering events; organized workshops that helped over 2000 first-year students about program offerings and resources available through Student Success initiatives.

**Researcher** **May 2024 - August 2024**  
NASA L'SPACE PROPOSAL WRITING AND EVALUATION EXPERIENCE

- Led the design and development of a quantum sensor prototype, increasing sensitivity by 5 times for detecting biosignatures on exoplanets leveraging N00N state interferometers.
- Applied Siemens NX CAD software to design subsystems, reducing sensor size by 20% while improving operational efficiency, including photon detectors, cooling systems, and radiation shielding.

## PROJECTS

**Sleep Soon | JavaScript, CSS, HTML, MySQL, Python, Git** **October 2024 - October 2024**  
Project for HackHarvard **Cambridge, Massachusetts**

- Developed a web application in a team at HackHarvard, creating an app to encourage healthier sleep habits by 27% through a user-friendly interface and customizable bedtime reminders.
- Implemented JavaScript, HTML, and CSS, and backend functionality for real-time user interaction, enhancing project management, coding skills in a high-pressure fast-paced collaborative environment.

**LOGICTOPIA BRIDGE CROSSING SYSTEM | Digital, Verilog** **March 2023 - May 2023**  
Capstone Project **Tempe, Arizona**

- Spearheaded the design of a sophisticated finite state machine for a pedestrian bridge crossing system, creating two distinct designs and implementing Verilog for hardware description.
- Devised state diagrams, distributed systems, state transition tables, and Karnaugh maps to optimize logic efficiency by 15% and engineered and simulated the final design utilizing Digital and Verilog.

**LEGO EV3 AUTONOMOUS CAR** **September 2022 - December 2022**  
Project for ASU Engineering Class | MATLAB **Tempe, Arizona**

- Engineered an autonomous passenger-carrying vehicle using MATLAB, programming it to execute tasks such as 180-degree turns and autonomous navigation through decision tree algorithms.
- Integrated remote control functionality at pickup zones, allowing seamless transitions between autonomous driving and manual control, increasing efficiency by 10%.

## TECHNICAL SKILLS

**Languages:** JavaScript, Java, JavaFX, Python, C, C++, CSS, HTML, MATLAB

**Frameworks:** ReactJS, Django Rest Framework, Flask

**Databases:** MongoDB, MySQL

**Others:** Git, JIRA, Linux, Ubuntu, Scheme, Prolog, Verilog, Defang, Cloudwatch