KAVISH SHAH

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EDUCATION

Arizona State University - Barrett, The Honors College (3.75/4.00) **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 ten students during engineering events; organized workshops that helped over 2000 first-year students about program offerings and resources available through Student Success initiatives.

Product Manager Intern **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, Cloudwatch **March 2024 - May 2024**
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, Defang **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
Databases: MongoDB, MySQL
Others: Git, JIRA, Linux, Ubuntu, Scheme, Prolog, AWS (EC2, RDS, SES, S3 and CloudWatch), Verilog