Kavish Shah

+1 408-609-7196 | kshah77@asu.edu | linkedin.com/in/shah-kavish | github.com/thekavishshah

Education

Arizona State University - Barrett, The Honors College (3.86/4.00) Tempe, Arizona

Bachelor of Science Honors in Computer Science Expected Graduation May 2026

- Coursework: Entrepreneurship and Value Creation, Principles of Programming Languages, Introduction to Artificial Intelligence, Information Assurance, Theory of Computation, Operating Systems, Assembly Language Programming, Software Engineering, Object-Oriented Programming, Data Structures and Algorithms
- Leadership/Club Involvement: Barrett Mentor, Fulton Ambassador, Treasurer at SoDA (The Software Developer Association), Member of Data Science Club, Code Devils, Pickleball Club

Experience

Software Engineer Intern Mar. 2025 – Present

Dark Alpha Capital LLC Remote

- Developed and deployed scalable full-stack web applications using Next.js, Prisma, and PostgreSQL, reducing manual deal tracking efforts by 25%.
- Partnered with stakeholders to define product requirements for a deal-sourcing platform, implementing dynamic rate limiting that improved API reliability and reduced error rates by 35% during peak usage.
- Conducted weekly code reviews and contributed to design discussions with the CTO and engineers, helping align technical goals with business needs and improving sprint delivery consistency by 15%.

Residential Peer Mentor Aug. 2024 – Present

Ira A. Fulton Schools of Engineering Tempe, AZ

- Directed a team of peers to develop an interactive workshop series for new engineering students, enhancing engagement and attendance by over 40 participants per event.
- Collaborated with a team of 17 students during engineering events; organized workshops for over 2000 first-year students, raising awareness of available program offerings and resources.
- Mentored 50+ first-year engineering students through weekly check-ins and events, resulting in a 30% increase in student engagement and retention within residential programs.

Researcher May 2024 – Aug. 2024

NASA L'SPACE Proposal Writing and Evaluation Experience

- Led the design and development of a quantum sensor prototype, increasing sensitivity by 5x for detecting real-time biosignatures on exoplanets using N00N state interferometers.
- Utilized Siemens NX CAD software to design subsystems, reducing sensor size by 20% while improving operational efficiency through photon detectors, cooling systems, and radiation shielding.
- Co-authored and submitted a 17-page concept proposal with a team of 13, addressing NASA's in-space additive manufacturing gaps; selected as a top 10% submission based on technical depth and feasibility.

Projects

TeachPortal | *JavaFX, Java, MySQL, Git, MVC Architecture* Sep. 2024 – Dec. 2024

- Programmed an efficient querying mechanism handling over 1,000 requests daily, enhancing data accessibility for users seeking immediate assistance.
- Engineered secure database interactions and schema management, boosting system performance by 25% and reducing query response times by 40%.

Sleep Soon | *JavaScript, CSS, HTML, Python, Git* Oct. 2024 – Oct. 2024

- Developed a web application at HackHarvard to promote healthier sleep habits, achieving a 27% improvement in user-reported sleep consistency.
- Implemented real-time user interaction with the user, honing collaboration in a fast-paced hackathon setting.

Technical Skills

Languages: JavaScript, Java, JavaFX, Python, C, C++, CSS, HTML, MATLAB
Libraries/Frameworks: ReactJS, Next.js, Prisma, NodeJS, Express, Flask, Django Rest Framework
Databases: PostgreSQL, MySQL, MongoDB
Tools: Git, JIRA, Docker, CI/CD Pipeline, Agile/Scrum, Salesforce
Others: Ubuntu, Verilog, Scheme, Prolog, Microsoft Office Suite