Kavish Shah

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EDUCATION

Arizona State University - Barrett, The Honors College (3.84/4.00) Tempe, Arizona
Bachelor of Science Honors in Computer Science Expected Graduation May 2026
- Coursework: Natural Language Processing, Mobile App Development Principles of Programming Languages, Introduction to Artificial Intelligence, Information Assurance, 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 May 2025 – August 2025
FarmX Inc. San Jose, CA
- Achieved **96% predictive accuracy** in soil moisture estimation through developing an AI-powered pipeline leveraging **Random Forest** and **Gradient Boosting**, improving irrigation efficiency across diverse soil types.
- Reduced irrigation error variance by **40%** by implementing soil-texture–specific calibration models and integrating **Osmo's 143× larger sensing volume**, resulting in more accurate root-zone water availability insights.
- Accomplished competitive accuracy within **5% of ensemble models** by implementing **Linear Regression**, which reduced training complexity and computation time by **60%**, informing cost-efficient deployment decisions.

Software Engineer Intern January 2025 – May 2025
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%**.
- Deployed a **RAG chat-bot** implementing **persistent long-term memory** and resolving **vector store/state management** issues to reduce internal deal tracking time by **30%** and improve multi-turn accuracy by **40%**.
- Resolved critical **memory persistence issues** in multi-session **AI workflows**, increasing chatbot context retention by **80%** and reducing duplicate query errors by over **50%**.

Residential Peer Mentor August 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.

PROJECTS

GreenStream AI | *React, FastAPI, Python, Anthropic API, Next.js* September 2025 – Present
- Developed an **AI-powered chatbot** using **FastAPI** and **Anthropic Claude models** to deliver industry-specific analyses and citations from public data, reducing user research time by **50%**.
- Implemented real-time query handling and **dynamic data visualization** in **React/Next.js**, improving response latency by **35%** and enhancing user engagement by **30%**.

Code Sentinel Bot | *TypeScript, GitHub Actions, OpenAI API, Node.js* June 2025 – June 2025
- Reduced and improved **pull request review time by 30%** and boosted **developer productivity by 25%** by creating an automated code review bot with **GitHub Actions** and **OpenAI GPT models** using **GitHub API**.
- Increased adoption across projects by **40%** by designing modular, configurable rule sets for easy integration.

TECHNICAL SKILLS

Languages: JavaScript, Java, JavaFX, TypeScript, Python, C, C++, R, 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, Upstash Redis, Firebase
Others: RESTful API Development, OpenAI API, Ubuntu, Verilog, Scheme, Prolog, Microsoft Office Suite