

# Kavish Shah

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## EDUCATION

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**Arizona State University - Barrett, The Honors College (3.88/4.00)** Tempe, Arizona

*Bachelor of Science Honors in Computer Science*

Expected Graduation May 2026

- Coursework: Natural Language Processing, Artificial Intelligence, Machine Learning, iOS App Development, Principles of Programming Languages, Information Assurance, Operating Systems, Assembly Language Programming, Software Engineering, Object-Oriented Programming, Data Structures and Algorithms
- Leadership/Club Involvement: Residential Peer Mentor, Fulton Ambassador, Treasurer at SoDA (The Software Developer Association), Member of Data Science Club, Code Devils, Pickleball Club

## EXPERIENCE

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**Software Engineer Intern**

August 2025 – Present

*Green On Demand*

Tempe, AZ

- Engineered **distributed vector search infrastructure** with **HNSW indexing**, **cosine similarity algorithms**, optimizing retrieval latency to **sub-100ms** and scaling to **10,000+ embeddings** with **99.9% uptime**.
- Built **AI-powered document extraction system** using **Claude API** and **NLP pipelines**, implementing **Redis caching layer** that cut processing time by **75%**.
- Architected **automated weekly digest system** using **Resend API** and **cron scheduling**, implementing **AI driven content summaries** and **personalized email generation** for user sustainability insights.

**Software Engineer Intern**

May 2025 – August 2025

*FarmX Inc.*

San Jose, CA

- **Implemented** an AI-powered pipeline leveraging **Random Forest** and **Gradient Boosting** that achieved **96% predictive accuracy** in soil moisture estimation, improving irrigation efficiency across diverse soil types.
- Reduced irrigation error variance by **40%** by implementing soil-texture-specific calibration models and integrating **Osmo's 143x 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 decreased training complexity and computation time by **60%**, informing cost-efficient deployment decisions.

**Software Engineer Intern**

January 2025 – May 2025

*Dark Alpha Capital LLC*

Tempe, AZ

- **Deployed** scalable full-stack web applications using **Next.js**, **PostgreSQL**, and **Redis**; configured **GitHub Actions CI/CD** and **Playwright** end-to-end tests, reducing 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%**.

## PROJECTS

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**Stiled** | [thestiled.com](https://thestiled.com) | *Node.js, Flask, Gemini API, MediaPipe, OpenCV*

January 2026 – Present

- Created a Chrome extension with **Node.js/Express** and **Google Gemini** for AI virtual try-on, achieving **85-92% fit accuracy** and **90-95% skin tone detection accuracy** using **MediaPipe/K-Means clustering**.
- Launched beta with **100+ waitlist signups**, implementing a 5-indicator color matching engine

**Resume Copilot** | *Python, FastAPI, Gemini API, LaTeX*

January 2026 – Present

- Built **FastAPI backend** with **Gemini AI integration** and **regex-based LaTeX parsing**, implementing **3-tier validation pipeline** that lowered resume customization time by **85%** through automated bullet point rewriting.
- Architected **RESTful API** with **Pydantic data models** and **retry logic**, processing **LaTeX compilation workflows** that dynamically inject **AI-generated content** and apply formatting to **20+ technical terms**.

## TECHNICAL SKILLS

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

**Libraries/Frameworks:** ReactJS, Next.js, Prisma, NodeJS, Express, Flask, Django Rest Framework

**Databases:** PostgreSQL, MySQL, MongoDB

**Tools:** Claude Code, Supabase, Ubuntu, Git, Docker, CI/CD Pipeline, Agile/Scrum, Salesforce, Upstash Redis, Firebase

**Others:** RESTful API Development, OpenAI API, Gemini API, Verilog, Scheme, Prolog, Jira, Microsoft Office Suite