

Thrisha Kopula

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EDUCATION

University of California Davis

September 2023 - March 2025

Master of Science in Computer Science

University of California Santa Cruz

September 2019 - June 2023

Bachelor of Science in Computer Science: Game Design

TECHNICAL SKILLS

Primary: TypeScript, JavaScript, Python, Java

Frontend: React, Next.js, React Native, HTML, CSS

Backend: Node.js, Express, Spring Boot, FastAPI, REST APIs

Databases: PostgreSQL, MySQL, MongoDB

Cloud & DevOps: Amazon Web Services (AWS), Docker, CI/CD

AI / GenAI: RAG, Large Language Models (LLMs), Prompt Engineering

Certifications: AWS Certified Cloud Practitioner, AWS Certified AI Practitioner

EXPERIENCE

Software Engineer

October 2025 - January 2026

Healthcare Triangle

Remote, USA

- Led comparative benchmarking of 6+ small language models (SLMs) to inform production model selection for Readabl.ai's healthcare workflows
- Defined and documented end-to-end architecture, establishing a scalable workflow used in production systems

Graduate Student Researcher

April 2024 - January 2025

University of California Davis

Davis, CA

- Built a real-time multiplayer AR application integrating Unity, Oculus VR, and live quadcopter control
- Implemented physics simulation and synchronization logic to ensure low-latency, consistent multiplayer state
- Optimized performance-critical systems to improve interaction accuracy under real-time constraints

Frontend Developer

December 2021 - September 2023

University of California Santa Cruz

Santa Cruz, CA

- Owned frontend improvements for 10+ production web pages serving 5K+ monthly users
- Reduced page load times by 20% through layout, asset, and cross-browser optimizations
- Integrated analytics (Google Analytics) to drive data-informed UI changes

Software Engineer Intern

June 2022 - September 2022

Autodesk

San Francisco, CA

- Improved reliability of a large-scale React + TypeScript codebase by adding Jest tests and fixing type-safety issues
- Reduced production bugs by 15% through improved test coverage and stricter typing
- Collaborated with designers and engineers to prototype and ship workflow improvements

PROJECTS

PocketUp | *React.js, Java, SpringBoot, PostgreSQL*

August 2025 - October 2025

- Developed a full-stack personal finance application enabling users to track income and expenses in real time, improving data visibility and usability
- Constructed and deployed a scalable REST API in Java (Spring Boot) with PostgreSQL and Spring Data JPA

Supportly (RAG Chatbot) | *Next.js, Node.js, OpenAI API, Vercel*

February 2025 - April 2025

- Programmed a Retrieval-Augmented Generation (RAG) chatbot using Pinecone and GPT-3.5, delivering context-aware responses for FAQ-style queries
- Deployed scalable Next.js + Node.js backend with Vercel, supporting 100+ concurrent users during testing