Thrisha Kopula

 Github | LinkedIn | Portfolio | Email

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 with a Minor in Computer Science

SKILLS

Software — TypeScript/JavaScript, React, React Native, Swift, Kotlin, HTML/CSS, Python, C++, C#, C, Java, PostgreSQL, Go, TensorFlow, PyTorch, NumPy, pandas, Scikit-learn, Docker, ChromaDB, FastAPI

Design — Unity, Unreal, Figma, Figjam, Adobe Illustrator, Adobe After Effects

CERTIFICATIONS

AWS AI Practitioner — **February 2025**

Validated knowledge of foundational AI/ML concepts, AWS AI services, and best practices for AI integration in cloud-based solutions.

WORK EXPERIENCE

University of California Santa Cruz Risk Services — **November 2021 - September 2023**

Website Graphic Designer

- Utilized the web-based WCMS (Web Content Management System) editing tool, HTML, and CSS to enhance and customize 10+ pages on the university website
- Contributed to designing 30+ graphics, 2 websites, and various promotional materials for UC Santa Cruz's occupational wellness programs

Autodesk — **June 2022 - September 2022**

Software Engineer Intern

- Programmed in Typescript with React native to resolve errors and wrote 5+ extensive unit tests using Jest to ensure proper operation of code
- Contributed to fixing 10+ bugs, improving overall application stability and performance
- Engineered a high-fidelity prototype using Figma to improve upon a filter panel that needed to be translated using a newer design structure
- Worked with a large codebase using Git and Visual Studio Code

PROJECTS

Supportly

- Implemented a Retrieval-Augmented Generation (RAG) mental health chatbot using ChromaDB for search and GPT-3.5 for generative responses, answering user queries
- Developed a backend with FastAPI, integrating sentence-transformer embeddings to enhance FAQ retrieval and response generation
- Designed a session-based response system, tracking conversation history to provide context-aware replies and ensure coherent multi-turn interactions

Reddit Sentiment Analysis

- Analyzed 1,000+ Reddit posts from 10 subreddits, exploring sentiment trends and engagement metrics
- Developed classification models (Naive Bayes, SVM, Logistic Regression, Random Forest) achieving up to 96% accuracy
- Identified a 20% correlation between comment count and post score, reinforcing that engagement drives popularity

FitFlow

- Created an app using Xcode and Swift and developed a feature to match user tracks with their current BPM
- Constructed the app's user authentication, API integration, and music-matching algorithm, enhancing the user experience for workouts
- Implemented real-time BPM tracking via HealthKit and dynamically recommended Spotify songs based on heart rate