Suryateja Duvvuri

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EDUCATION

University of California - Riverside — Riverside, CA
Bachelor of Science in Computer Science — *Sept. 2022 – May 2026*
Related Coursework: Edge Computing, Data Structures and Algorithms, Software Construction, Linear Algebra

EXPERIENCE

Software Engineering Fellow — Cupertino, CA
Headstarter | Remote | Profile — *July. 2024 - Present*
- Built and deployed 5 AI projects in 5 weeks using OpenAI, Stripe, Clerk, and AWS EC2, following agile methodologies with weekly sprints.
- Collaborated with 3 Fellows to build and deploy a SaaS product that generates flashcards based on any topic using the Llama 3.1 LLM.
- Implemented an embedded AI version of Rate my Professor through **HuggingFace**'s Sentence Transformers to extract data and upsert to a Pinecone index to improve feedback by 15%.
- Participate in weekly sessions with engineers from Google, Y Combinator, Stanford, Amazon and venture-backed startups

iOS Developer — Cupertino, CA
buildspace | Remote — *June. 2024 - July. 2024*
- Developed an iOS mobile app in SwiftUI and XCode that achieves emotional interaction with the user through conversational AI within six weeks.
- Participated in weekly lectures and labs with the Founder, collaborating with a network of 50+ developers to enhance iOS development skills and AI implementation.
- Submitted detailed project updates weekly, showcasing continuous improvement and iteration, contributing to the overall project's success.

PROJECTS

FeelSpace | *SwiftUI, HumeAI, Cloud Firestore | Source code* — *June 2024 – July 2024*
- Integrated a conversational, emotional AI using WebSockets and Audio Technologies, achieving 90% accuracy in recognizing and analyzing emotions through text and voice input to give back messages to the end-user.
- Used Firestore Database to process and store real-time data for 100+ users and display it anonymously as a feed post, fostering strong community bonding and enhancing user interaction
- Optimized the UI/UX with SwiftUI, achieving a 40% increase in user satisfaction through intuitive design and responsive layout.

ShelfieWatcher | *Python, Google Cloud Platform, Firebase | Source code* — *May 2024 – June 2024*
- Collaborated with 4 other members to devise an edge computing-based retail inventory management system using GCP, leveraging two NVIDIA Jetson Nanos for inventory tracking and object-detection via OpenCV
- Implemented real-time inventory updates and email alerts using GCP Pub/Sub and Integration API, reducing manual labor and improving stock accuracy by 25%
- Designed the cloud architecture on GCP, including Firebase Real-time DB and Cloud Storage for images and text, and Vision Cloud API for text detection, improving the solution's scalability and efficiency by 15%.

Blog Project | *React, Git, Sanity, Vercel | Website | Source code* — *January 2023 – June 2023*
- Created a visually appealing blog layout and utilized React and Tailwind to improve compatibility across browsers by 25%.
- Connected a blog page with a headless CMS text editor that allows creating, managing, and publishing content via formats like Images to improve the flexibility of editing content by 20%.

TECHNICAL SKILLS

Languages: Java, C++, JavaScript, Swift
Frameworks/Technologies: React, Next.js, Tailwind CSS, Firebase, GTest, CMake, QMake, SwiftUI
Tools: Linux, Git, AWS, HTML5, CSS, IntelliJ, Eclipse, QT Creator, XCode, Excel, Vim, MATLAB