Arvind Kasiliya

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EDUCATION

University of Connecticut August 2020 – May 2024
Bachelor of Science in Computer Science in the University Honors Program

EXPERIENCE

Undergraduate Research Assistant October 2021 – Present
University of Connecticut, RIET Lab Storrs, CT

- Working in the Reducing Information Ecosystem Threats (RIET) Lab.
- Performed multilingual claim matching to match social media posts (on controversial political and public health topics) to fact-checks using a tuned natural language model with Sentence-BERT.
- Used the Twitter API to create a dataset that continuously collects new tweets with keywords relevant to our research.

PORTFOLIO

Rubik's Cube Solver

- A Rubik's Cube solver web app, built in React, that can solve a cube in under 3 seconds.
- Users can fill out (color) a flattened diagram of a Rubik's Cube and receive the necessary moves to solve it, which is usually under 25 moves.
- Uses a custom implementation of Herbert Kociemba's Two-Phase algorithm, written in Python, and communicates with the frontend using a FastAPI backend.

IRC Client/Server

- A basic implementation of an IRC client (with a command-line UI), and a server, written in C and the pthread library.
- Supports direct messages, individual channels for specialized chat rooms, and server-wide nicknames.

Commentarium

- A mobile note-taking app for iOS written in SwiftUI.
- Has functionality to create, modify, and delete notes, and organize notes with folders.
- Uses CoreData to handle the storage and retrieval of notes and associated folders.

SKILLS

Programming Languages Python, C, Rust, Go, C++, Java, C#, Swift, TypeScript, SQL, Bash

Technologies React, Node.js, Next.js, SwiftUI, JavaFX, Docker, Git, Unix