

# Arvind Kasiliya

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## EDUCATION

### University of Connecticut

August 2020 – May 2024

BS 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 under Dr. Shiri Dori-Hacohen.
- 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.
- Put together a dataset of relevant Reddit threads (post and comment tree) using the Reddit API and performed sentiment analysis to gauge the mood about the topic.

### Undergraduate Research Assistant

September 2022 – Present

University of Connecticut, CTng

Storrs, CT

- Working under Dr. Amir Herzberg on Certificate Transparency Next Generation (CTng), an extension to CT, written in Go, that ensures No Trusted Third Party (NTTP) and improves transparency.
- Wrote unit tests of API methods to ensure robustness as functionality was added/changed.
- Tested efficiency, overhead, and reliability of various network topologies on the DETERLab, a testbed for cybersecurity research projects.

## PORTFOLIO

### Rubik's Cube Solver

- A React web app that can solve a Rubik's 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 Chat Program

- A basic implementation of an IRC client (with a command-line UI) and 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