

# Karan Sodhi

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## Education

### University of Illinois at Urbana Champaign

*Champaign, Illinois*

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

*December 2022*

- **GPA:** 4.0
- **Completed Coursework:** Intro to Computer Science, Freshman Honors Computer Science, Calculus III
- **Current Coursework:** Software Design Studio, Discrete Structures, Linear Algebra, Intro to Kotlin

### Dublin Jerome High School

*Dublin, Ohio*

DIPLOMA WITH HONORS

*May 2019*

- **GPA:** 4.3/4.0 | **ACT:** 36/36
- **Valedictorian**

## Projects

### Gen Ed Finder

ANDROID APP

2019

- App built in **Java** that helps UIUC students find classes they need to graduate or classes similar to ones that they have enjoyed
- Found similarities between classes using the **Python** machine learning library scikit-learn
- Created a **REST API** using Python and **Flask** to return the results of the similarity model to the app and deployed it on AWS

### Secure and Sure

WEB APP

2019

- Securely stores identification documents for retrieval online for those who lack a reliable physical space to keep their documents
- Parsed documents using **Azure** computer vision so users could easily enter their information on government assistance forms
- Secured data by using a combination of **RSA** and **XOR** encryption to encrypt the image file and parsed contents
- Created the UI with React, parsed documents and encrypted with **JavaScript**, stored user info in Firebase, and deployed with Netlify

### Hindi Words and Phrases for Kids

ANDROID APP

2018

- Used **Java** and **XML** to build a language learning app designed to help small kids learn basic hindi words
- Includes common phrases, numbers, family members, colors, and food

## Skills

**Programming** Java, Python, JavaScript, Haskell, Android Development

**Tools & Technologies** Git, Bash, Flask, Docker, Firebase, AWS, Azure

## Experience

### The Dublin Food Pantry

*Dublin, Ohio*

STUDENT VOLUNTEER

*2017 - 2019*

- Assisted over 200 clients with selecting groceries and loaded food into cars
- Worked as a member of the kitchen crew to prepare thousands of pounds of food for the shelves
- Helped with community-wide fundraising drives, collecting around 20,000 pounds of food in 5 hours

## Honors & Awards

- 2019 **Featured Project**, CS 125 Project Fair
- 2019 **Candidate**, U.S. Presidential Scholar
- 2018 **Finalist**, JPMorgan Code For Good Challenge
- 2018 **Winner**, AP Scholar with Honor