

**INTERESTS** – Software Engineering | Computer Vision | ML | Data Analytics



## EDUCATION

**The University of Chicago**, Chicago, IL

Master Program in Computer Science

Relevant Course Work: Discrete Mathematics, Python Programming, Compilers, Algorithms, and Software Engineering. CGPA: 3.7/ 5.0

**Vellore Institute of Technology (VIT)**, Vellore, Tamil Nadu, India

Bachelor of Technology: Computer Science and Engineering. CGPA: 9.0/10.0

## EXPERIENCE

**NDimensionZ**, Kochi, India

**July 2021 – August 2021**

*Design and Development Intern*

- Project Goal: Automate extraction of important data in client bank documents
- Developed a program to detect tables from bank documents by using Faster Region-based Convolutional Neural Network (Object Detection)
- Used Image Processing concepts to improve OCR (Optical Character Recognition) reading of image files

**TCS iON**, Remote

**March 2021 – June 2021**

*Machine Learning Intern*

- object recognition using Artificial Intelligence and Open CV. Utilized YOLO (You Only Look Once) algorithm for vehicle detection
- Designed a detection system, complete with alarms and distance measuring

## SKILLS & PROFESSIONAL CERTIFICATIONS

- C | C++ | Java | Python | MySQL | Photoshop | Figma
- Databases and SQL for Data Science (IBM) | Foundations of AI (NASSCOM)
- Image Processing | Data Structures and Algorithms | Cloud Computing | Machine Learning
- Logical Thinking | Communication | Leadership | Public Speaking | Team Player | Planning and Organization

## KEY ACADEMIC PROJECTS

### Types of Steganography

Developed a program to conceal any file within various media such as text files, audio files, photos and videos.

### Vehicle Collision Detection System

Developed a program in Python to warn a driver of potential collisions using real-time object detection using dashcam footage. Vehicles were identified using real-time object detection.

### Traffic Speed Radar

Developed a program to estimate the speed of vehicles from stationary road footage, using OpenCV and Image Processing Concepts.

### Data Loss Prevention System

Developed software using Batch Programming and Python to prevent unauthorized access to sensitive information. This involved sending alerts to an Email in case of a breach, encryption and decryption of data, and validation of official documents using digital signatures.

### Travelling Salesman Problem on Indian Dataset

Developed a project on the traveling salesman problem, created data set for with an Indian district and compared various algorithms. The project involved generating a new efficient and accurate algorithm from pre-existing algorithms.

## EXTRACURRICULARS

V.P. Public Relations Toast Masters Club, VIT Hackathon Code Crunch20 – 25<sup>th</sup> Rank, Chess, Badminton, Music