

# Nandhana Sasikumar

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## EDUCATION

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Little Flower College, Guruvayoor, Kerala, India

**Bachelor of Science in Computer Science**, Aug 2022 - May 2025

GHSS Chathanur, Kerala, India

**Class 12 - HSE**, 2022

Percentage: 96

Sree Maharshi Vidyalaya, Pattambi, Kerala, India

**Class 10 - CBSE**, 2020

Percentage: 93

## SKILLS

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**Languages:** HTML, CSS, C, Python, SQL, Java, JavaScript, PHP

## CERTIFICATIONS

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- **Harvard** – CS50's Introduction to programming with Python
- **Coddy** – Java Fundamentals
- **Udemy** – Technovalley Cyber Security Cadet-Ethical Hacking-2023 Edition
- **Cousera** – Google Crash Course on Python
- **Infosys** – Basics of Python

## PROJECTS

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**Virtual Paint:** Developed an application using OpenCV and Python that allows users to draw virtually by detecting colored markers in real-time and translating their movements into a digital drawing on screen. The project employs computer vision to detect marker and enable virtual drawing.

**Document Scanner:** Developed an application using OpenCV and Python that allows users to upload images and obtain scanned versions. The project utilizes Computer vision techniques for detecting document edges, extracting contours and applying perspective transformation.

**Text Editor:** Created a simple text editor using Tkinter and Python, featuring functionalities like changing fonts, opening, editing and saving text files. The project has a user-friendly interface to facilitate font selection and file management.

**Portfolio website:** Developed a portfolio website using HTML, CSS and JavaScript to showcase personal projects and skills. Implemented responsive and interactive design techniques to ensure compatibility across various devices and browsers. Integrated interactive elements and animations to enhance user engagement and presentation.

**Tic-Tac-Toe AI:** Built and tested various Tic-Tac-Toe AIs for Tic-Tac-Toe game, each employing different strategies ranging from simple to advanced algorithms. Implemented minmax algorithm to build flawless AI.

**Hand-Tracking:** Developed a hand-tracking module using OpenCV, mediapipe and Python to detect and follow hand movements in real-time. Leveraged MediaPipe for real-time hand gesture recognition and integrated computer vision methods to accurately track and interpret hand movements.