

# Shri Keshavinee R

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## EDUCATION

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- **Sri Sivasubramaniya Nadar College of Engineering** Chennai, TamilNadu  
*BE - Computer Science and Engineering, 4th year; CGPA: 9.0*  
*Transcript*  
December 2020 - May 2023
- **Indian Institute of Technology, Madras** Chennai, TamilNadu  
*Online B.Sc in Data Science and Programming, Diploma; CGPA: 8.06*  
*Certificate*  
January 2021 - April 2023
- **Geethanjali All India Senior Secondary School** Erode, TamilNadu  
*Class 12, CBSE; Score: 477/500*  
*Marksheet*  
June 2019 - March 2020
- **SPK Matriculation Higher Secondary School** Tiruchengode, TamilNadu  
*Class 10, State Board of TamilNadu; Score: 489/500*  
*Marksheet*  
June 2017 - March 2018

## SKILLS

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- **Languages:** C, C++, Python, Java, HTML, CSS, JavaScript, SQL, Bash
- **Frameworks:** ReactJS, VueJS, AngularJS, Django, Pandas, Java Swing, Servlet, JSP, Flask, Redis, Celery
- **Tools:** GIT, Android Studio, VS Code, MySQL, SQLite, PythonAnywhere, Docker
- **Platforms:** Linux, Windows

## PROJECTS

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- **Custom capacitor plugin for running background tasks in android mobile:** Developed an android mobile app that performs downloading multiple zip files from firebase server in parallel, extracts and inserts the downloaded zip files to the local SQLite database and performs background downloading to a max time without crashing the app, even when the phone is asleep. A custom plugin has been developed to perform the afore-mentioned tasks. The solution developed works for all brands of android mobiles. Tech: Java, Kotlin, Ionic framework, Android studio, SQLite, AngularJS, Firebase, Capacitor (Aug '23) [Link](#)
- **Automatic Weed Detection and removal system :** Trained a yolo v8 model for custom dataset of Screwpine plants to detect weed and crop in a input image captured by webcam. Developed a robotic arm to pluck the weeds after detection. Tech: YOLO V8 model, SolidWorks, Arduino, Raspberry Pi, RealVNCViewer (July '23) [Link](#) [Video](#)
- **Attendance Management System:** The proposed automated attendance management system (AMS) aims to eliminate manual data entry, provide accurate and up-to-date attendance records, and make it easier to maintain attendance data. In addition, it can provide transparency and accountability, enabling the faculty to track student attendance patterns and make informed decisions. Tech: Core Java, Java Servlet, JSP, HTML, CSS, MySQL (Apr '23) [Link](#)
- **Movie ticket booking system :** This is a multi-user app used for booking show tickets. User can book many tickets for many movies. Added daily reminder jobs using celery and used Redis for caching. Tech: Flask, VueJS, Redis, Celery, SQLite ( Aug '23) [Link](#)
- **Int-act:** Developed a tool by leveraging computer vision libraries to enable a simple computer and projection systems to behave like a smartboard leveraging commonly available local tools. The solution includes leveraging Machine Vision enabling computers that are controlled by human hands by recognizing writing on the board using hands and digitally recognizing them as inputs. Detects the hands like a mouse pointer to click or interact with what is displayed. Tech: Mediapipe, Tkinter, OpenCV, Pyautogui ( September '22) [Video](#)

## PUBLICATIONS / RESEARCH / WHITE PAPERS

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- **Anti-Shoulder Surfing Graphical Password Authentication System :** Research Article — Indian Journal of Natural Sciences — Developed a web application which is user-centred and straightforward to authenticate users in desktop or laptop lock screens. (Dec '22) [Link](#)
- **A Fusion Approach for Web Search Result Diversification Using Machine Learning Algorithms :** Multimedia Retrieval in CLEF (ImageCLEF 2022) — CEUR Workshop Proceedings — Investigated the effectiveness of ensembling techniques for web search result diversification. (Sep '22) [Link](#)

## HONORS AND AWARDS

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- Winner at Smart India Hackathon - March, 2022 Certificate
- Awardee of Schaeffler India Hope Engineering Scholarship 2020-21

## VOLUNTEERING ACTIVITIES

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- **Former Member of SSN ACM Core Committee 2022**  
*Design team member for the committee, ACM Student Chapter*  
Feb 2022 - Present