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**KAARTHIKA N**

**Computer Science and Engineering**

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**Education**

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| --- | --- | --- | --- |
| **Year** | **Degree/Certificate** | **Institute / School** | **CGPA/Percentage** |
| 2020 - 2024 | B.E - CSE | Sri Ramakrishna Engineering College, TN | 8.46 (current) |
| 2020 | HSC | Sri Chaitanya Junior College, Vijayawada, AP | 9.03 |
| 2018 | SSLC - CBSE | Kendriya Vidyalaya Air Force Station, Chennai, TN | 86% |

**Area of Interest:**

• Cyber Security

• Android Application Development

**Technical skills:**

• Cyber Security:

Ethical hacking, Cryptography, Security in online Social Media, Network and information Security  
 Tools: Kali Linux, Wireshark, Burp Suite, Nmap, Nessus, SIEM, IBM QRadar

• Application Development:  
 Language: Java

• Programming languages:

Basics in - Java, Python

**Projects:**

• **Study project on Automatic Number Plate Recognition October 2021**

Mentor: Mrs. M. Karthiga, (Sr.Gr) AP/CSE

The study of this project aims in automatically detecting the number plate of the vehicle systems which violate the rules of the road safety. It mainly concentrates on the colors, languages and font styles of the various number plates and detecting the number plate more accurately using the frames in the camera. Convolutional Neural Network based model is the preferred machine learning algorithm according to our study to achieve a higher accuracy rate.

• **Graphical Password Authentication March 2022**

Mentor: Mrs. M. Karthiga, (Sr.Gr) AP/CSE

This project is a password login system by which a user can login to their application in a simple methodology i.e. selecting a sequence of images in their wish at the time of setting up the password and using that sequence to login their application. The users can use the default domain of images given by us or they can either upload images of their wish at the time of registration. This login system can be used in all types of web based and mobile applications. This model is the most user-friendly password and also since this database is stored using blockchain technology it is safe and secure.

• **Intrusion Detection System for Data Encryption June 2023**

Mentor: Mrs. M. Karthiga, (Sr.Gr) AP/CSE

This project aims in finding the vulnerabilities in a data set by dividing them into fragments which have unique ID and it consists of particular tokens or simply bytes of data. In this project we look into find an unsupervised learning algorithm to find whether the imported encrypted data is vulnerable or not.

**Internship experience:**

• Cybersecurity Virtual Internship at ILLINOIS TECH in the Excelerate platform.  
 Tools covered during my internship include the following with practical knowledge :  
 Linux, Wireshark, Gephi, Nmap, Vim, Bash, Cryptography, Thunderbird, VeraCrypt, Steghide, Cryptographic hash functions, Intrusion detection system, Firewall, Tripwire, Htop, Top, Iftop and the method of exporting a virtual machine. Completed the internship on 7th April 2023.

• Live in lab internship at Sri Ramakrishna Engineering College:

Android application for rural employment opportunities in local village in Coimbatore. It is an ongoing project.

**Position of responsibilities:**

• President of Reading Movement – SREC

• Event Management core member of Google Developer’s Student Club (2021-2022) – SREC

• Public relation core member of Google Developer’s Student Club (2022-2023) – SREC

• Associate Member of Quiz Club – SREC

• Student Council Executive (2017-2018) – KV AFS

**Key courses taken:**

Artificial Intelligence for Cybersecurity

LinkedIn

Issued Oct 2022

Ethical Hacking: Cryptography

LinkedIn

Issued Oct 2022

Ethical Hacking: Hacking IoT Devices

LinkedIn

Issued Oct 2022

Introduction to AWS for Non-Engineers

LinkedIn

Issued Oct 2022

PYTHON3.x

SkillRack

Issued Nov 2021

C Language - Gold Level

HackerRank

Issued Aug 2022

Advance Your Cybersecurity Career

LinkedIn

Issued Oct 2022

KICKSTART (Code Solution)

SkillRack

Issued July 2022

CISSP Cert Prep (2021): 1 Security and

Risk Management

LinkedIn

Issued Dec 2022

Ethical Hacking: Mobile Devices and Platforms

LinkedIn

Issued Dec 2022

**Achievements:**

• BEC (Business English Certificate) Preliminary level passed with overall score of 144 out of 170

• Participated till 2nd round in Smart India Hackathon (SIH) Internal Hackathon 2022

• Presented paper in the International Conference on Contemporary Progress in Engineering and Technology (ICCPET -2022) at KGiSL Institute of Technology on “Automatic Number Plate Recognition”

**Co-curriculars:**

• Three Day Hackathon SREC HACKFEST’22

• Android Study Jams SREC’2021

• Data Security Council of India & EY - Hackathon in 2021

• Matlab Onramp : MathsWork

• Design-O-thon : GDSC

• Git and GitHub : GDSC

• Google Cloud Program: GDSC

• Android basics in Kotlin : GDSC

• Event Organization : Qzenith, Quiz Club of SREC

• Certificate of selection in Financial Literacy Championship 2021

**Certifications in technical field:**

• Python – Programming Course (Hands-On) (SkillRack)

• Ethical Hacking (Nptel & HomeFlic Wegrow)

• Cryptography and Network Security (Nptel)

• Privacy and security in online social media (Nptel)

• Problem solving basic in C# : HackerRank

• Problem solving basic in C : HackerRank

• Problem solving basic in Java : HackerRank

**Extra-curriculars:**

• Received the meritorious **Award from Ministry of Defence** for exceptional performance in education on the occasion of Republic Day Celebrations 2021 with a cash prize.

• Received Excellent position in **Bhartiya Sanskriti Gyan Pariksha** in the year 2017-18 from Gayatri Teerth - Shantikunj, Haridwar

• **Won 3rd** place in **Singing** Competition at inter school level competition

• Certificate of merit - **Choir group** in School for the years : 2015, 2016, 2017,2018

• **Won 2nd** - Scouts and Guides activities at Inter School competition : 2014

• Qualified & Participated in National level Drawing competition - **Pixel Pallets** : 2015

**Strength:**

• Time management

• Teamwork

• Flexible

• Communication skills

• Management skills

• Leadership skills

• Patience

**Personal Details:**

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| --- | --- |
| **Date of birth** | 29/08/2002 |
| **Mother Tongue** | Telugu |
| **Languages Known** | English, Hindi, Tamil, Sanskrit(Basics) & German(Basics) |
| **Permanent Address** | Chennai - 600072 |

\*I solemnly declare that all the above information is correct to the best of my knowledge and belief.\*

**PLACE: CHENNAI**

**DATE: KAARTHIKA N**