Sai Venkata Karthik Maguluri

📞 9110565845   ⬛ github.com/msv-karthik   in Karthik-MSV   ✉ msvkarthik12@gmail.com

EDUCATION

SRM Institute of Science and Technology	CGPA: 9.12
B.Tech Computer Science and Business Systems	*Expected: June 2025*
Maharishi Vidya Mandir	Percentage: 81.2%
Class: XII - CBSE	*2021*
Maharishi Vidya Mandir	Percentage: 77.8%
Class: X - CBSE	*2019*

SKILLS

Programming Languages: Java, Python
Frontend Web Development: HTML, CSS, JavaScript, React
Backend Web Development: Node.js, Express, MongoDB
App Development: React Native, Expo
Data Analysis: SQL, Excel, Power BI
Tools & Libraries: Figma, Bootstrap, Matplotlib, Pandas, NumPy,Wireshark, Git/Github

PROFESSIONAL PROJECT EXPERIENCE

Edunet Foundation   June 2023 – July 2023

Project Based Learning Virtual Internship on Cybersecurity, Python

- Gained hands-on experience in security protocols, threat analysis, and mitigation strategies, utilizing IBM SkillsBuild's cutting-edge learning platform.
- Developed and implemented a keylogger to explore real-world cybersecurity threats, demonstrating ethical hacking techniques and applying security measures to detect and prevent vulnerabilities.

Python Developer   April 2023 – June 2023

Freelancer Turbo machinery

- Contributed to an open-source initiative by migrating 6,000 lines of legacy Fortran code to Python, employing modern programming practices to enhance code maintainability, performance, and scalability.
- Improved the Multall Program by implementing advanced graphing solutions for blade profiles using Python libraries such as Matplotlib and Pandas, significantly improving the program's data visualization and accessibility for the engineering community.

PROJECTS

ContactHub | 🔗 | *Node.js, Express, MongoDB, JWT, RESTful API, CRUD Operations*

- Developed a Contact Management System with secure user authentication utilizing Node.js, Express, and MongoDB.
- Designed and implemented full CRUD operations for contacts and integrated JWT-based authentication for user login and profile management.

Social | 🔗 | *React Native, Expo, Clerk, Convex*

- Developed a feature-rich React Native social media app, including authentication, posts, comments, bookmarks, notifications, and integrated database setup with schema design.
- Designed and implemented dynamic user profiles and post interactions (like, comment, delete), while optimizing app performance for a seamless user experience.

Not A Note | 🔗 | *Web Development, HTML, CSS, JavaScript, API, Local Storage, Figma*

- Developed an interactive learning platform integrating YouTube videos with real-time code execution for JavaScript, Python, and Java, enhancing user engagement and practical skill development.
- Implemented a streamlined sliding panel interface for efficient note management, featuring color-coded organization and local storage persistence, significantly improving user productivity and information retention.

Hospital Management System | 🔗 | *SQL*
- Designed and implemented a comprehensive Hospital Management System as part of a Database Management System course.
- Initiated the project with the creation of an Entity-Relationship (ER) diagram, meticulously mapping hospital processes.
- Used SQL, PL/SQL, and triggers to transform the ER diagram into a database system, enabling efficient patient management, appointment scheduling, and medical record keeping.

Coffee Shop Sales Analysis | 🔗 | *Excel, Data Cleaning, Data Visualization*
- **Objective:** Analyzed retail sales data to gain actionable insights and enhance coffee shop performance.
- **Key Analysis Conducted:** Identified peak sales times, tracked monthly performance, compared sales across locations, and assessed average order prices, top-selling products, and category sales.
- **Techniques:** Leveraged Excel for proficient data import, organization, and dynamic visualizations using pivot tables and charts. Compiled comprehensive reports with actionable findings and recommendations.

CERTIFICATIONS

Cloud Computing | *NPTEL*

Certified Fundamentals in Cybersecurity | *Fortinet*

Certified Associate in Cybersecurity | *Fortinet*

ACHIEVEMENTS

Web-Paged Event | *DATAKON*   Nov. 2022
- Secured 2nd place in the Web-Paged event at DATAKON 2022 hackathon, showcasing strong web development and problem-solving skills.

LEADERSHIP EXPERIENCE

Committee Head, Finance | *AARUUSH*   Apr. 2023 - Aug. 2024
- Acted as the primary point of contact for financial matters during AARUUSH 2023, overseeing ticket sales, ensuring smooth communication and coordination across teams, and effectively managing event finances.
- Contributed to the workforce for SRM RUN 7.0, organized by AARUUSH, supporting event operations and logistics.

EXTRA CURRICULAR ACTIVITIES

Power BI & AI Workshop | *Growth School*   June 2024
- Engaged in a hands-on workshop focused on Power BI fundamentals, data visualization techniques, and integrating AI for enhanced reporting and data analysis.

AI-ML Virtual Internship | *Google for Developers, Eduskills & AICTE*   Jan. 2024 – Mar. 2024
- Successfully completed a 10-week virtual internship, specializing in AI and ML, with a focus on computer vision, Convolutional Neural Networks (CNNs), and practical machine learning applications.

Azure Fundamentals Workshop | *Microsoft Learn Student Ambassadors*   May 2024
- Gained comprehensive knowledge of cloud computing, Azure architecture, services, and management, through hands-on exercises and guided training sessions.

MERN Full Stack Development Workshop | *SRMIST*   Aug. 2023
- Completed an intensive 2-day workshop on full-stack web development with the MERN stack (MongoDB, Express, React, Node.js), focusing on both front-end and back-end technologies.