

KAKARALA SREEVALLABH

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Education

Vellore Institute of Technology, Chennai

Integrated Master of Technology in Software Engineering

Sep. 2022 – June 2027

Chennai, Tamil Nadu

Relevant Coursework

- Data Structures
- Machine Learning
- Algorithms Analysis
- Database Management
- Computer Networks
- Operating Systems
- Computer Architecture
- Software Engineering
- Requirements Analysis
- Software Testing and Analysis
- Agile and Scrum Methodologies
- Software Development Life-cycle (SDLC)
- Cloud Computing
- DevOps

Experience

Research Intern

Agriculture Domain Research

Jan. 2025 – Present

VIT Chennai

- Currently exploring the **classification of spongy tissue disorder in mangoes** using **X-ray imaging and deep learning**, aiming to enable non-invasive detection techniques for early post-harvest quality assessment.

Freelance Web Developer

Metic Synergy Website

Dec. 2024 – Apr. 2025

Remote

- Designed and developed a responsive corporate website for Metic Synergy using **NextJS, Firebase, and Tailwind CSS**.
- Implemented interactive features including customer testimonials, service showcases, and contact forms with **automated email notifications**.
- Optimized site performance resulting in **40% faster load times** and improved SEO rankings, increasing organic traffic by **25%**.
- Designed and implemented a custom CMS allowing non-technical staff to easily update content, reducing maintenance overhead by **60%**.

Projects

VHTOP - Hostel Management Suite 🏠

March 2024

- Developed a scalable management suite for hostel students using **NextJS and Firebase**.
- Integrated a carpooling micro-service, addressing **safety and cost issues**
- Implemented utilities like laundry, mess updates, and emergency services, **reducing queues by 80% and boosting efficiency by 50%**.
- Linked authentication with university accounts for seamless operation, **targeting 7000+ potential users**.

Sarah - AI-Driven Virtual Assistant

2024

- Developed an open-source, AI-powered virtual assistant with **speech recognition, NLP, and automation capabilities**.
- Integrated **speech_recognition** and **pyttsx3** for voice-based interactions, ensuring natural conversation flow.
- Implemented **intent recognition** using keyword analysis and machine learning techniques for improved accuracy.
- Enabled task execution for **media playback, information retrieval, smart home control, and automation**.
- Designed a **modular architecture** in Python, supporting extensibility and offline functionality.
- Achieved **91% speech recognition accuracy** and **87% task execution accuracy** through benchmarking.

Technical Skills

Languages: Python, Java, C/C++, JavaScript, SQL, NoSQL, Bash, Git
Web Development Frameworks: Flask, HTML, CSS, PHP, NextJS
Machine Learning Frameworks: Numpy, Pandas, Scikit-learn, Matplotlib
Databases: DynamoDB, Aurora, SQLite, MySQL, Firestore
Cloud Technologies: Firebase, Google Cloud Platform, AWS
Design Suite: Figma, AdobeXD.
Other Technologies: Linux, Android, Asana, Notion, Docker, Kubernetes.

Leadership / Extracurricular

Microsoft Innovations Club

Management/Sponsorship

September 2023 – Present

Vellore Institute of Technology, Chennai

- Organized and hosted numerous events with participants.
- Collaborated with a cross-functional team to organize speaker sessions and coding challenges, fostering a culture of innovation and learning.
- Contributed to developing and implementing strategies to expand the club's reach and impact on campus

VITrendz - Chennai

Social media lead

September 2023 – Present

Vellore Institute of Technology, Chennai

- Managed and strategized social media operations for a platform with 17,000+ followers, driving a 40% increase in engagement across all channels.
- Managed content creation and scheduling for platforms like Instagram, Facebook, and Threads maintaining a consistent brand voice.