

# VULLENGALA RAJ KUMAR

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## Career Objective

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A forward-thinking engineering graduate with hands-on experience in web development, full stack technologies, and advanced fields such as Artificial Intelligence (AI), including Generative AI and cloud computing. Eager to contribute technical expertise to create accessible, scalable, and user-centric digital solutions. Committed to continuous learning, professional excellence, and impactful contributions within a dynamic and inclusive organization.

## Education

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- **Bachelor of Technology** in Computer Science and Engineering – IoT | Siddhartha Institute of Technology & Sciences (Affiliated to JNTU-Hyderabad) | Graduated July 2025 | Scored CGPA 7.14
- **Intermediate – MPC** | Sri Chaitanya Jr. Kalasala, Secunderabad | Completed in 2021 | Scored CGPA 8.35
- **Secondary School Certificate (SSC)** | Tagore's Home N.E.I.S School, Secunderabad | Completed in 2019 | Scored CGPA 8.5

## Skills

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- **Programming Languages & Technologies:** C, Core Java, Python, HTML5, CSS3, JavaScript.
- **Cloud Platforms:** Google Cloud Platform, Microsoft Azure, AWS
- **Databases:** MySQL, MongoDB
- **Tools & Software:** Git, Windows
- **Embedded Systems & IoT:** Internet of Things (IoT), Arduino IDE

**Soft Skills:** Communication, Teamwork, Problem-solving, Adaptability, Time Management, Leadership, Creativity, Conflict Resolution.

## Certifications

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- **Google Cloud Computing by Google:** Acquired skills in cloud infrastructure, services, and deployment on Google Cloud Platform.

- **Generative AI Academy by Google Cloud and Hack2Skill:** Gained practical experience with Gemini APIs, Vertex AI, Imagen, and multimodal RAG to build real-world Gen AI applications.
- **Microsoft Azure AI Certification:** Successfully completed certification in AI solutions on Microsoft Azure, including cognitive services and machine learning applications.
- **Java Full Stack Development by Simplilearn:** Familiarity with software development in front-end and back-end development using Java, Spring Boot, and related technologies.
- **Python course by GUVI:** Developed Basic proficiency in Python programming, including data structures, algorithms, and libraries.
- **Bootcamp on IoT Security conducted by ISEA:** Gained in-depth knowledge of IoT security protocols and best practices.
- **Diploma corticate in Communication on Skills** from RK Math Hyderabad: Improved verbal and written communication on skills, along with public speaking and presentation on abilities.
- **Certificate of Merit – Ramayana:** The Story of Life National Level Scholarship Test, Ranked among the **top 150 contestants** nationwide organized by R.K MATH Hyderabad.
- **IoT training by Edu Station:** Learned about IoT architecture, devices, and applications.

## Projects

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### AI-Based Real-Time Sign Language Translator

- Developed an AI-powered system to translate sign language gestures into real-time text/audio using deep learning and computer vision.
- Designed a **two-way communication system** that enables switching between multiple modes: gesture to text, image, audio, and vice versa (audio to gesture, image, text, and audio).
- Utilized Python, TensorFlow, OpenCV, and NLP techniques for efficient translation.

### Medicine Reminder App

- Developed a responsive web application to help users manage and track daily medication schedules with timely alerts.
- Implemented features like medicine name input, dosage timing, and real-time notifications using HTML, CSS, JavaScript, and local storage for data persistence.

### IoT-Based Suicide Prevent on System in Hostels

- Developed a system to prevent suicides in hostels, potentially saving student lives.
- Tools Used: IoT, Sensors, Microcontrollers

### Portfolio Website Development

- Designed and developed a personal portfolio website to enhance web development skills.
- Implemented responsive design using HTML, CSS, and JavaScript for an optimized user experience.
- Implemented a **responsive contact form**, allowing users to reach out seamlessly.

<https://rajkumarv07.github.io/portfolio-wedsite/>

## Internships

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### **Microsoft Azure & Azure AI Services Internship** | Microsoft | [[10 April 2025 – 10 May 2025]

- Completed a **4-week internship** focused on cloud computing and AI services using Microsoft Azure.
- Gained hands-on experience in **Azure AI solutions**, including cognitive services, machine learning models, and cloud deployment.
- Developed and optimized AI-based applications leveraging Azure Machine Learning, Azure Cognitive Services, and Azure Bot Services, Deep Learning.
- Explored cloud infrastructure, security, and automation to enhance AI-driven solutions.

### **Self-Paced Learning Internship in Emerging Technologies** | Simplilearn | [ongoing]

- Successfully completed a structured self-paced internship focused on Data Structures & Algorithms, Java Full Stack Development, and Machine Learning using Python.
- Gained hands-on expertise in software development, cloud computing, and AI solutions while enhancing problem-solving skills through real-world projects.

### **Gen AI Academy (Google Cloud & Hack2Skill)** | Completed May 2025

- Completed curated learning modules in Generative AI tools including Gemini APIs, Imagen, Vertex AI, Streamlit, and Multimodal RAG
- Gained hands-on experience in designing and deploying real-world AI solutions using Google Cloud's Gen AI platforms
- Explored responsible AI practices and the integration of multimodal strategies for innovative application development

### **Java Full Stack Development Internship** | QSpiders | [November 2024 – March 2025]

- Completed structured training in HTML, CSS, JavaScript, SQL, Core Java, and Data Structures & Algorithms (DSA).
- Gained hands-on experience in web development and its technologies, database management, and algorithm optimization.
- Strengthened problem-solving skills through practical exercises and industry-relevant concepts.

### **AWS Bootcamp** – Conducted by MJCET College | [November 2024]

- Gained hands-on experience in AWS cloud services, deployment, and infrastructure management.
- Explored cloud security, automation, and scalability through practical labs.

### **Full Stack Development Certification** | freeCodeCamp | Ongoing

- Pursuing a comprehensive 1800+ hour curriculum covering front-end, back-end, databases, APIs, data visualization, and security.
- Building 30+ real-world projects across 11 certifications including Responsive Web Design, JavaScript Algorithms, React, Node.js, MongoDB, and PostgreSQL.
- Gaining hands-on experience with the MERN stack (MongoDB, Express, React, Node.js), RESTful APIs, and automated testing frameworks.