

SARATHKUMAR R

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EDUCATION

Computer Science and Engineering

Bharathidasan Engineering College /Anna University, Tamilnadu • 2023 • 7.78 CGPA

Tiruppattur, Tamil Nadu

Aug 2019 – June 2023

EXPERIENCE

Software Developer | Computational Intelligence Research Foundation (CIRF) | Chennai | July 2024 – Present 2 Years of Experience

- Utilized Python, Django, and RESTful APIs to develop and maintain scalable web applications.
- Designed responsive, mobile-friendly interfaces using JavaScript, Bootstrap, and CSS3.
- Improved PostgreSQL and MySQL performance by designing and optimizing database schemas and queries.
- Integrated Generative AI (GenAI) solutions using LLMs for intelligent content creation and process automation.
- Developed REST APIs for seamless front-end and back-end communication, reducing response time by 40%.
- Resolved full-stack performance bottlenecks, improving speed, scalability, and security by 30%.
- Collaborated with cross-functional teams to manage version control and deployment using Git and cPanel.
- Mentored and guided student trainees to ensure adherence to clean architecture principles and coding standards.
- Contributed to UI/UX design, website content development, and digital marketing materials using Canva.
- Contributed to the publication of IEEE research papers by reviewing and evaluating content to ensure academic quality and compliance with publication standards.

Python Full Stack Developer Trainee Engineer

July 2023 – Nov 2023

- Palle Technologies | Bangalore
- Gained practical expertise utilizing Python, Django, and RESTful services to create end-to-end web applications.
- Mastered front-end technologies to produce user-friendly and responsive interfaces, such as HTML5, CSS3, JavaScript, and Bootstrap.
- Worked on practical projects like a student management system, honing teamwork, cooperation, and problem-solving abilities.

PROJECTS

Braineel

March 2026 – Present

- Developed an AI-powered learning and career guidance platform that provides personalized skill assessments, learning recommendations, and career support through an interactive web application.

Technologies Used: Python, Django, Flask, HTML, CSS, JavaScript, Bootstrap, MySQL, REST APIs, Git, GitHub, Generative AI (GenAI), LangChain.

ResumeBot AI

Sep 2025 – Nov 2025

- ResumeBot AI is an AI-powered interview assistant that uses Groq API (LLMs) to evaluate resumes and provide customized questions. Through a Streamlit web interface, it supports voice interaction and delivers real-time feedback.

Technologies Used: HTML, CSS, Python, Streamlit, Generative AI (GenAI), Large Language Models (LLMs), Groq API (via LangChain), SpeechRecognition

CERTIFICATIONS

- Palle Technologies • Bangalore • 2023
- Nan Mudhalvan, IBM Cloud Certification, 2022
- AWS Cloud Practitioner Essentials 2026

TECHNICAL SKILLS

- Languages: Python, JavaScript, HTML5, CSS3
- Frameworks: Django, Django REST API, Flask, Bootstrap
- Databases: MySQL, PostgreSQL
- Cloud & Deployment: AWS EC2, S3, Lambda
- Python Tools: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, OpenCV, NLTK, spaCy, Requests, BeautifulSoup, Generative AI (LLMs), LangChain
- Web Tools: RESTful APIs, JSON
- IDEs & Tools: PyCharm, Jupyter, Visual Studio, GitHub
- Core Concepts: OOP, RESTful APIs, MVT Architecture, ML, CI/CD Pipelines (GitHub Actions)