

SABITHA PAULRAJ

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Education

Saveetha Engineering College

Bachelor of Engineering in Computer Science and Engineering | **CGPA: 9.2**

Nov. 2022 – May 2026

Chennai, TN

Work Experience

BMW Group, India

Data Analyst Intern

Oct 2024 – Mar 2025

Mahendra WC, TN

- Automated backend workflows processing over 1 million records using Python, SQL, VBA, and VBScript, cutting manual work and operational delays by 60%.
- Optimized relational databases(RDBMS) through query troubleshooting, administration, and custom feature development — improving data accuracy and retrieval speed.
- Designed and deployed internal tools and dashboards used by teams across 6+ BMW plants worldwide (e.g, Thailand, Brazil, Egypt, Indonesia, Malaysia, Vietnam), boosting project tracking, compliance, and collaboration.
- Improved database functionalities by fixing SQL query bugs and building custom features for progress tracking; collaborated with global stakeholders to deliver scalable tools across departments.
- Developed an AI-powered document versioning tool using sentence transformers, enabling real-time change detection and saving 10+ hours weekly in compliance reviews.

Projects

SkyDrop | React.js, Spring Boot 3, AWS S3, REST API

Apr 2025

- Developed a full-stack app using React and Spring Boot 3 for effortless file uploads to Amazon S3 with real-time progress tracking.
- Implemented a REST API that supports multi-file drag-and-drop, automatic file type validation, and resumable uploads for enhanced user experience.
- Integrated AWS S3 SDK for secure, scalable cloud storage with optimized network usage and fault tolerance.

Chatgram | MERN, Socket.io Tailwind CSS

Nov 2024

- Developed a full-stack chat app with user authentication, global state, and live messaging using Socket.io.
- Implemented secure JWT-based auth, online presence detection, and responsive UI using TailwindCSS
- Deployed a production-ready app with seamless client-server communication and robust error handling on both ends.

Technical Skills

Languages: Java, Python, C, JavaScript, Typescript, HTML/CSS, SQL

Developer Tools: VS Code, Git, Github, AWS, Postman, Google Cloud Platform, Jupyter Notebook

Libraries/Frameworks: ReactJS, NodeJS, ExpressJS, MongoDB, Springboot, Flask, Vite, NextJS

Relevant Coursework

- Analysis of Algorithms
- OOPS using Java
- Artificial Intelligence
- Computer Networks
- Data Structures in Java
- Operating Systems
- Database Systems

Achievements

1st Place – IBM Z Datathon Global Hackathon (Chennai, In-Person), 2023

- Built a scalable disease prediction system using Python, scikit-learn, TensorFlow, and Pandas, combining supervised regression and deep learning to classify illnesses from symptom and health record data, enabling early detection and self-diagnosis on the IBM Z platform.

1st Place – Datatrix 24hr Datathon at Guvi (SRMIST), 2024

- Built MedAI Bot, an AI-powered healthcare assistant using LLaMA 3.1 (8B), LangChain, Ollama, and ChromaDB for NLP, symptom analysis, and medical document parsing; frontend built with HTML, CSS, and JavaScript.

Certifications

- AWS Cloud Security Foundations, AWS
- AWS Cloud Solutions Architect, AWS
- AWS Cloud Practitioner Essentials, AWS