GUGAN S S

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PROFILE SUMMARY

Detail-oriented and performance-driven Computer Science Engineering undergraduate with strong knowledge of data structures, algorithms, systems programming, and data analytics. Skilled in Python, C, C++, SQL, Excel, and machine learning, with hands-on experience building optimized solutions, analyzing data, and developing interactive applications. Dedicated to solving real-world problems through efficient engineering and clean design.

EDUCATION

Amrita Vishwa Vidyapeetham — Coimbatore, India
B.Tech in Computer Science and Engineering — CGPA: 7.81 — *2023 – 2027*
The Indian Public School — Erode, India
Higher Secondary Education — Cutoff: 182/200 — *2021 – 2023*

PROFESSIONAL EXPERIENCE

Software Development Engineer Intern — Sep 2025 – Oct 2025
Bluestock Fintech — *Remote / India*
– Worked on core feature development and contributed to improving platform performance.
– Debugged and optimized code to support fintech operations and customer-facing components.
– Gained real-world experience in agile development, version control, and scalable architecture.

PROJECTS

Smart Irrigation System — Embedded Project
– Built an automated irrigation system using STM32, soil moisture sensor, relay module, and I2C LCD.
– Implemented Automatic and Manual modes for precise motor control based on soil moisture.
– Ensured efficient water usage with real-time monitoring and reliable embedded logic.

Car Automation System — Embedded C Project
– Implemented automotive safety modules including seat temperature control, speed monitoring, tyre pressure monitoring, and CO emission detection.
– Built sensor-simulated components for alcohol detection, SOS button, and fuel–temperature-based alerts.
– Designed modular Embedded C programs ensuring real-time responses and improved driver safety.

Parama Edu – E-Learning Platform (UI/UX, Frontend)
– Designed an intuitive learning interface improving engagement by 30%.
– Reduced bounce rate by 15% through responsive and user-friendly design.
– Collaborated with backend integration team, improving platform performance by 20%.

StudSync – Student Management App (Flutter, Firebase)
– Built a cross-platform Flutter app with real-time Firestore data management.
– Implemented modules for events, holidays, attendance, and timetable tracking.
– Developed a responsive UI with proper state management and live listeners.

Gugan MetaLab – Personal Portfolio (React, TypeScript)
– Developed a modern portfolio using React and TypeScript with smooth animations via Framer Motion.
– Created a clean, futuristic UI to effectively showcase projects and skills.

TECHNICAL SKILLS

Programming: Python, C, C++, Java, JavaScript, HTML/CSS, Haskell, Dart
Tools: Excel, SQL, Git, VS Code, ChatGPT
Frameworks: React, Flutter, Node.js
Databases: MySQL, MongoDB, PostgreSQL, Firebase
Data Analytics: SQL, Advanced Excel, Pandas, NumPy, Matplotlib
Domains: Operating Systems, Computer Networks, Machine Learning

SOFT SKILLS

Critical Thinking, Problem Solving, Communication, Collaboration, Adaptability, Presentation