

# SASIKUMAR S

Undergraduate Student | Software Developer | AI Engineer  
sasikumarldrago@gmail.com | +91 7010491215 | Chennai, Tamil Nadu  
[LinkedIn](#) | [GitHub](#) | [Portfolio](#) | [LeetCode](#)

## PROFESSIONAL SUMMARY

Computer Science undergraduate with hands-on experience in designing and developing AI agents, IoT-based systems, and cross-platform mobile applications with a strong foundation in machine learning, agentic AI, cloud computing, and software development. Contributed to open-source projects through Elite Coders and EduLinkUp, collaborating on real-world solutions and community-driven initiatives. Published research work in emerging technology domains and recognized as a hackathon winner for developing innovative solutions to practical challenges.

## EDUCATION

**B.E. in Computer Science and Engineering** | Oct 2024 – May 2028  
Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai  
CGPA: 9.01 / 10

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, Dart, HTML, CSS, SQL, C++  
**Frameworks:** Flutter, React.js, Node.js, Express.js, TensorFlow  
**Tools & Platforms:** Git, Firebase, Vercel, GitHub API  
**Domains:** IoT, Agentic AI, ML Models, Cloud Basics, Prompt Engineering, Mobile App Dev  
**Soft Skills:** Problem Solving, Team Collaboration, Technical Communication, Self-Learning

## EXPERIENCE

**Open Source Developer** | Elite Coders

- Built and shipped open-source projects by delivering functional modules that were reviewed and merged into the main codebase, actively refactoring components to align with modern coding standards and contributing to long-term maintainability of the codebase.

**Open Source Contributor** | EduLinkUp

- Implemented new features and resolved open issues on the EduLinkUp platform through consistent pull request contributions, coordinating closely with maintainers to ensure architecture alignment and adherence to project conventions across the codebase.

## PROJECTS

**DocSync — Autonomous Documentation Agent** | React.js, Node.js, Express.js, Gemini 2.5 Flash, GitHub API

- Engineered an AI agent that intercepts GitHub PR webhooks, analyzes code diffs using Gemini 2.5 Flash, and automatically generates structured technical documentation injected directly into the developer's PR workflow, eliminating manual documentation overhead and enabling software teams to maintain up-to-date project docs within their CI/CD pipelines.

**AI-Powered Code Review Assistant** | Node.js, GitHub API, LLM API

- Automated pull request reviews using LLM-based static analysis to detect bugs, security vulnerabilities, and performance bottlenecks, generating precise inline comments mapped to exact line numbers, reducing dependency on senior reviewers and enforcing consistent code quality standards across distributed agile development teams.

**LogiSync AI — Autonomous Supply Chain Control Tower** | Python, AI APIs, Dashboard UI

- Designed an autonomous AI agent for automotive MSMEs that continuously monitors supply chain data, predicts inventory shortages through trend analysis, and proactively drafts resolution strategies with a human-in-the-loop approval layer, helping manufacturers prevent production downtime and reduce procurement costs in real-world parts distribution operations.

**Smart Water Quality Monitoring System** | Flutter, Firebase, ML Models, IoT Sensors

- Deployed an IoT system combining real-time weather API data with sensor readings to trigger context-aware alerts in both online and offline modes, supported by a Flutter mobile app and a Firebase analytics dashboard, enabling continuous water quality monitoring for rural and semi-urban communities where manual testing is infrequent; research published at an international conference.

**Smart Tourist Monitoring and Incidence Response System** | Flutter, Python, AI Models, Firebase

- Developed an AI-based tourist safety and monitoring system featuring a Flutter app with real-time location tracking, a Tourist Assist feature for personalized place recommendations and safety-optimized routing, and four AI models providing intelligent companionship, route optimization, behavioral anomaly detection, and real-time risk level prediction for enhanced tourist security in public environments.

## ACHIEVEMENTS

- Published "AI Powered IoT Platform for Water Quality Monitoring and Weather Condition Analysis" at the 3rd International Conference on Advances in Artificial Intelligence and Machine Learning in Big Data Processing.
- Secured 1st Place at the Internal Smart India Hackathon (SIH) for the Smart Tourist Monitoring System.
- Awarded the First Project Award for the design and implementation of an IoT-based Smart Water Quality Monitoring System.