B KUMARA SIDDI SATYA SAI MALLIK *Software Intern*

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👤 Profile

A dedicated and driven software development student, passionate about leveraging academic knowledge, hands-on internship experiences, and programming skills to secure a challenging entry-level position in the software industry. Eager to contribute innovative solutions and grow with in a dynamic, cutting-edge environment.

💼 Professional Experience

05/2024 – 11/2024

Web Designer and Developer
INCRIVELSOFT ↗

- Designed and enhanced webpages for the company's website, including a blog page with sections for articles, category carousels, video embeds and AI chatbot integration which received excellent feedback.
- **Freelance web developer:** Delivered a highly functional landing page for the Upaasana-SMRITI project by seamlessly integrating Figma designs into WordPress website
- Created detailed documentation on integration processes, plugin FAQs, and project requirements, ensuring clarity and enabling streamlined future development and collaboration.

06/2024 – 07/2024

Java Full Stack Developer Intern
RINL-VIZAG STEEL PLANT ↗

- Designed and implemented a comprehensive system for managing machine maintenance using J2EE and Web 2.0 technologies.
- Developed key features including real-time maintenance tracking, automated alerts, and data reporting.
- Employed MySQL for database management and Apache Tomcat as the application server, ensuring reliable data handling and server-side operations.

🎓 Education

2021 – present
7.41 CGPA

B.Tech - Computer Science
Jawaharlal Nehru Technological University Gurajada Vizianagaram
7.41 CGPA

2019 – 2021
92.5%

Intermediate
Tirumala Junior college

📁 Projects

MACHINE MAINTENANCE SYSTEM ↗
Tech Stack: J2EE, HTML5, CSS3, JavaScript, Oracle DB

- Developed a robust system to streamline the management of machine maintenance tasks.
- The system included functionalities for machine registration, user role assignments (Admin, Supervisor, Technician), and task scheduling.
- Enhanced operational efficiency through automated notifications, detailed reporting, and intuitive interfaces.

COMPILER FOR C ↗
Tech Stack: SLY, Python

- Successfully developed a minimal C compiler, implementing core functionalities to process and compile C-like code.

- Designed and implemented a lexer to tokenize source code, supporting a subset of C syntax, and created a parser to build a syntax tree ensuring syntactic correctness. Constructed an Abstract Syntax Tree (AST) to represent the structure of parsed code, aiding subsequent compilation stages.

Decision Tree ☒
Tech Stack: Python, NumPy, Pandas, Graphviz
- Developed a decision tree algorithm from scratch, implementing core functionalities like data splitting, information gain calculation, and recursive tree construction.
- Performed hyperparameter tuning (e.g., max depth, minimum samples split) to optimize model performance and reduce overfitting and Visualized the decision tree structure using Graphviz.

CertiTrack – Smart India Hackathon 2024 ☒
Tech Stack: React.js, Node.js, PostgreSQL, Express.js, Prisma
  Problem Statement ID: SIH1622
- Developed *CertiTrack*, a project aimed at optimizing the issuance of caste and other certificates by the Revenue Department.
- Designed and Implemented real-time data collection, centralized dashboards, automated alerts, and a load-balancing system to streamline the certification process.
- Integrated Twilio API for WhatsApp messaging to enhance communication during the certificate verification process.

Restaurant Table Booking System ☒
Tech Stack: Next.js, Node.js, Express, Tailwind CSS, MongoDB, API Development
- Designed a responsive booking form with **Next.js** and **Tailwind CSS**, including a calendar view for selecting available dates and times.
- Created RESTful APIs with **Node.js** and **Express** to manage bookings, including creating, retrieving, and deleting reservations, with **MongoDB** integration for data storage.
- Implemented dynamic time slot availability checking, preventing double bookings and ensuring smooth user interaction.

🧠 Skills

- Java
- Git
- Spring Boot
- JQuery
- Matplotlib

- Python
- GitHub
- WordPress
- figma
- Next.js

- MySQL
- Node.js
- Machine Learning
- Numpy
- MongoDB

- React.js
- REST API
- J2EE
- Pandas

📇 Certificates

Cisco NetAcad ☒ — .Programming Essentials in Python | .Computer Network Essentials | Cloud Security Alliance by CSCK

EdX Certifications ☒ — Professional communication skills certificate

🧩 Achievements

- Team Lead, **Smart India Hackathon 2024 Grand Finale**.

- Hosted **'Code Quest'**, a technical event at **CRESENCE 2K24**, JNTUGV CEV.

- **Student Affairs Coordinator**, JNTUGV CEV.

- Recognized with a company-branded gift from **IncrivelSoft** for contributions during internship.

🏛 Core Competencies

- Effective Communication
- Problem Solving
- Innovation and Creativity
- Analytical thinking

⚙ Coursework

- Software Design
- Compiler design
- Operating Systems
- Database management systems
- Data structures, Algorithms
- Linux Environments