

MALIPEDDI SUDEEP

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SUMMARY

Backend engineer with hands-on experience in Python and Flask and strong CS fundamentals. Comfortable working close to the metal, from async task pipelines down to a CHIP-8 interpreter in C. Comfortable across the full backend stack and motivated by work that rewards deep understanding of how things work under the hood.

SKILLS

Languages Python, C, Java, JavaScript, SQL, Bash
Backend Flask, Celery, Redis, PostgreSQL, SQLAlchemy, REST APIs
CS Fundamentals OS, Computer Networks, DBMS, Data Structures & Algorithms, Computer Architecture

PROJECTS

Household Services Application · [Flask](#) · [Celery](#) · [Redis](#) · [Vue.js](#) · [PostgreSQL](#) · [GitHub](#)

- Built a multi-role web app (customer, professional, admin) with JWT auth and role-based access control — awarded S grade at IIT Madras.
- Implemented async task queue with Celery + Redis for background job processing and email notifications; exposed 15+ RESTful endpoints to a Vue.js frontend.
- Designed an 8-table PostgreSQL schema with SQLAlchemy ORM, covering users, bookings, service listings, and reviews.

Library Management System · [Flask](#) · [SQLAlchemy](#) · [Matplotlib](#) · [bcrypt](#) · [GitHub](#)

- Flask web app with secure auth (bcrypt + Flask-Login), admin panel for managing books and sections, and Matplotlib data visualization dashboards.
- Built CLI tools for admin user management and used SQLAlchemy for all database operations.

CHIP-8 Emulator · [C](#) · [GitHub](#)

- Complete CHIP-8 interpreter in C — all 35 opcodes, memory-mapped display, keyboard I/O, and cycle-accurate timing.
- Resolved undocumented opcode ambiguities across ROMs; built to deeply understand CPU fetch-decode-execute cycles and low-level memory layout.

WORK EXPERIENCE

Associate Analyst · [Deloitte](#) · Hyderabad

May 2024 – June 2024

- Developed and tested workflow automations using the Integrify Tool with JavaScript, HTML, and CSS.
- Tested REST APIs via Postman, verifying request/response contracts and ensuring seamless integration across services.

EDUCATION

B.Tech, CS & Engineering · [MGIT Hyderabad](#)

2021 – 2025

CGPA: 8.3 · Participated in Hackathons and event organization

Diploma in Programming · [IIT Madras BS Programme](#)

2021 – 2025

Coursework: Python, Java, DBMS, Data Structures, Linux · S grade capstone

Intermediate (MPC) · [Narayana Junior College, Hyderabad](#)

2019 – 2021

94.2%

ACHIEVEMENTS

- GATE 2026 CS — AIR 905 (top 0.5% of 211,020 candidates).
- Certifications: Full Stack Web Development with Flask, Getting Started with Linux, Foundational Level in Programming & Data Science.