Karan M.L

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Objectives

Enthusiastic and adaptable Computer Science student with strong technical and analytical skills, eager to solve real-world problems through innovative tech solutions. Passionate about AI, continuous learning, and collaborative development.

Education

- **Vellore Institute of Technology - Andhra Pradesh**   September 2021 - Present
  M.Tech Integrated Computer Science; CGPA: 8.26/10
- **Navarasam Matriculation Higher Secondary School - Erode**   2020 - 2021
  Higher Secondary Education, Computer Science; Percentage: 82.3%
- **Navarasam Matriculation Higher Secondary School - Erode**   2018 - 2019
  Secondary School Education, (SSLC); Percentage: 73%

Skills Summary

- **Programming Languages**: Python, Java, JavaScript, TypeScript, HTML, CSS
- **Frontend Development**: React js, Svelte, Next js
- **Backend & Frameworks**: Hono js, Node js, RESTful APIs
- **Databases**: MySQL, MongoDB, Firebase Realtime DB, Redis, Neo4j
- **Tools & Platform**: Git & GitHub, Docker, Cloudflare, Supabase, Netlify, n8n, Draw.io, Figma, Canva, PowerPoint, MS Word, Excel, Tableau, Power BI, Amazon QuickSight

Experience

- **Automating Logical Volume Management Across Distributed Servers in Data Centers**   May 2024 – July 2024
  Summer Internship Project / Digital Fortress by Sibi Chakkaravarthy   *Remote*
    - Developed a web-based tool for managing logical volumes in distributed data centers.
    - Automated storage management, optimizing resource utilization and system efficiency.
    - Integrated real-time dashboards, storage alerts, and performance monitoring features.
    - **GitHub:** Project Link
- **Universal PDF Extractor Development**   August 2025 – October 2025
  Python Developer / Personal Project   *Remote*
    - Developed a robust PDF extraction tool using Python 3.13 and Streamlit, capable of processing large files while extracting text, images, and tables into unified XML output
    - Implemented multi-engine table extraction using Camelot and Tabula with configurable processing order, integrated OCR capabilities via pytesseract for image-based text recognition
    - Built scalable backend architecture with modular design supporting both server file paths and uploads, featuring progress tracking, session management, and automated cleanup functionality
    - **GitHub:** Universal PDF Extractor Repository

Projects

- **Hackathon Registration & Management System (Team Project)**: Built a hackathon team registration system using Hono.js and hosted it on Cloudflare. Implemented automated email confirmations for successful registrations. Organizers can export registered teams to Excel for efficient management. (June 2021 – July 2022)
  GitHub: Project Link

- **PrivateGPT – Private AI Document Query System**: Built a secure, offline-ready system to query documents using Large Language Models (LLMs). Implemented document ingestion, chunking, embeddings, and context-aware retrieval using FastAPI and LlamaIndex. Ensured full data privacy by running all components locally without internet dependency. (Feb 2025 – Mar 2025)
  GitHub: Project Link

Interests

- **Technical**: Full Stack Development, Backend Architecture, API Integration, Database Design, Responsive Web Design
- **Non-Technical**: Team Collaboration, Communication, Time Management, Problem Solving, Adaptability

Certifications

- National Hackathon 2022 – IIEC, VIT-AP
- Full Stack Web Development Bootcamp - AI Integrated (March 18, 2025)
- Bootcamp on LLM Security (2025–2026) – Null Vijayawada
- Cybersecurity: Vulnerability Assessment and Patch Management – Syxsense
- Letter of Recommendation – Web Development for Suwate24 Conference, VIT-AP (May 2025) – Dr. Subbaiah Muthu Prabhu