SANDHEEP S
22PW32

Gender	Male
Date of Birth	3rd January 2005
Languages known	English, Tamil
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2/5, Karayampalayam, Mylampatti Post, Coimbatore,
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OBJECTIVE

To obtain a position as a Student intern from May 2025 to December 2025.

ACADEMIC QUALIFICATION

Currently pursuing 3rd year of 5 year Integrated M.Sc. Software Systems at the Department of Applied Mathematics and Computational Sciences at PSG College of Technology.

SKILL SET

Languages	Python , C / C++ , JavaScript , Java
Web Development	HTML , CSS , Bootstrap , React.JS , Node.JS , TailWind CSS
SQL Databases	MySQL , Postgres , OracleDB
Cloud Databases	Firebase , MongoDB
App Development	Flutter
Tools	Postman , Figma , Git , Vercel
AI-ML Libraries & Frameworks	Mistral AI , LangChain , ChromaDB , Pandas , Scikit-learn , BS4 , NLTK

AREAS OF INTEREST

- Machine Learning
- Web Development
- Deep Learning
- App Development

ACADEMIC RECORD

- **M.Sc Software Systems** — *2022-2027*
  PSG College of Technology, Coimbatore — **9.1 CGPA**

- **XII (Higher secondary, CBSE)** — *2022*
  CS Academy, Coimbatore — **98 %**

- **X (SSLC, CBSE)** — *2020*
  Amrita Vidyalayam Sr. Sec. School, Coimbatore — **95 %**

INDUSTRY BASED PROJECT EXPERIENCE

- **ZORRO DIABETIC REHAB & FITNESS** | Developed a Startup's Website

  (July 2024 - August 2024)

  Developed a comprehensive website for Zorro Diabetic Rehab & Fitness using **React**, **Tailwind CSS**, and **Framer Motion**, enhancing user engagement and accessibility. Tested and deployed on **Vercel**

- **MACHENN INNOVATIONS Pvt. Ltd.** | QA : Skeletal Visualization (VR-Project)

  (May 2024 - June 2024)

  Conducted thorough **testing** to identify and report bugs, glitches, and inconsistencies in the **VR application**, ensuring high-quality standards for **Hospitals and Medical Colleges.**

- **SOLITON TECHNOLOGIES Pvt. Ltd.** | Exhibit on Analysis of Sound Waves

  (January 2024 - April 2024)

  Actively engaged in hands-on experience at Soliton Technologies Pvt Ltd, creating an exhibit for GRD Museum for Science and Technology using **HTML**, **CSS**, **Bootstrap**, and working with **API calls from Flask and Streamlit applications**.

NON-ACADEMIC PROJECTS

- **DocuMind -** Developed an advanced Open Source **Retrieval-Augmented Generation (RAG)** application as a **Streamlit-based web platform**, utilizing **Python**, **Mistral AI**, **LangChain** , **ChromaDB**, and **Nomic Embed Text** to deliver **automated web scraping**, **document search**, and **intelligent question-answering capabilities**. Pre-trained models were integrated to optimize data retrieval, ensuring accurate, context-aware responses in real-time.

- **Flash Chat -** Spearheaded the development and deployment of an advanced mobile chat application utilizing **Flutter and Firebase(Cloud FireStore)**, significantly enhancing real-time communication and collaboration capabilities among users.

- **Family Voyage Tracker -** A personalized travel destination marker on a world map, using **EJS**, **PostgreSQL**, and **REST API implementation using Node.js and Express.js**.

ACADEMIC PROJECTS

- **Customer Review Sentiment Analysis -** Developed a **Natural Language Processing** web app in Python using **StreamLit** to **classify customer product reviews** using **Pandas**, **NumPy**, **Seaborn**, **WordCloud** , **NLTK**, **XGBOOST** and **SMOTE** libraries. Tested the model with real web-scraped data using BeautifulSoup

- **BookMyClassroom -** Designed and implemented a **scalable three-tier web application** , ensuring efficient separation of presentation, business logic, and data layers using **HTML**, **CSS**, **JS**, **PHP**, **MySQL** with a focus on optimizing the process of classroom management and enhancing user experience

- **OptiRoute Pro -** Created OptiRoute Solution, a **delivery route optimization** project for businesses utilizing **Dijkstra's algorithm** in **C++.**

- **Neonatal Incubation System -** Engineered a neonatal incubation system using **ESP32**, focusing on providing precise temperature control and monitoring for optimal infant care.

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- **Academic Certifications**
  - Arduino Training Certification (IIT Bombay) (100%)
  - Linux Certification (IIT Bombay) (96.67 %)
  - Game Development Certification (IIT Palakkad)

- Awarded a scholarship worth ₹75,000 in a National Level Social Science Olympiad to participate in a conference in Singapore.

- **Sports Certifications (Swimming)**
  - State Gold in 50m Backstroke
  - 2x District Individual Championship
  - Bronze in CBSE-South Zone Swimming Competition

DECLARATION

I, Sandheep S, do hereby confirm that the information given above is true to the best of my knowledge.

Place: Coimbatore
Date : 29/08/2024   (Sandheep S)