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INTERNSHIPS

•Indian Institute of Technology Guwahati | Onsite

June - September 2023

Intern - Department of Computer Science & Engineering (MARS LAB)

North Guwahati, Assam

- **Optimized Network-on-Chip (NoC) performance for Deep Neural Network (DNN) implementations.** Leveraged C++ and Python3 to analyze performance bottlenecks and develop mapping strategies for efficient DNN execution on NoC architectures.
(**Keywords:** Network-on-Chip, Deep Neural Networks, Performance Optimization, C++, Python)
- **Enhanced understanding of AI hardware-software co-design principles.** Gained valuable experience in the interplay between architectural design and mapping optimization, contributing to the development of efficient AI hardware accelerators.
(**Keywords:** AI hardware, accelerator design, co-design)

•Growth Purple | Remote

June - October 2023

ML Engineer Intern

Hyderabad, India

- **Developed a generative AI-powered interactive chatbots for clients..** Created an intelligent interaction system using advanced natural language processing techniques, enabling seamless data analysis with machine learning technologies.
(**Keywords:** Generative AI, LLM, Streamlit, Langchain, PDF Analysis, Machine Learning)

TECHNICAL SKILLS

Programming Languages: Python, C++, JavaScript, SQL

Web Development: HTML, CSS, Tailwind CSS, React, Django, FastAPI, Streamlit

Frontend Frameworks & Libraries: React, Tailwind CSS

Cloud & DevOps: Docker, Git, AWS (S3, Beanstalk), Google Cloud Platform (GCP)

Database Technologies: PostgreSQL, Firebase

Machine Learning & Data Science:

Frameworks: PyTorch, Scikit-learn

Libraries: NumPy, Pandas, Matplotlib

GUI Development: PySide

Soft Skills: Problem Solving, Time Management, Team Collaboration, Communication

Areas of Interest: Linux, Cloud Computing, Artificial Intelligence

Hobbies: Karate, Reading, Video Games

PROJECTS

•Big Defend

Jan 2025 – Ongoing

An open-source real-time Cybersecurity incident response system using Big Data.

- Tools & technologies used: NumPy, Nmap, Requests, Scapy, Scikit-learn
- Developed a real-time cybersecurity incident response system leveraging Big Data technologies for efficient detection and analysis of security threats.

•CHIP-8 Emulator

June 2024 – July 2024

A CHIP-8 emulator in C++

- Tools & technologies used: C++, SDL2, Low-Level Programming, Emulation
- Built a CHIP-8 emulator in C++ to replicate the functionality of the classic 1970s-era CHIP-8 virtual machine, accurately executing original CHIP-8 programs and games.

•Interactive PDF Chatbot with LLM

June 2023 – Sept 2023

Interactive PDF Chatbot with Machine Learning

- Tools & technologies used: Streamlit, Langchain, Hugging Face API, Gemini
- Developed a user-friendly Streamlit application enabling seamless interaction with PDF files through a conversational interface powered by Large Language Models (LLMs).

•Smart Parking & Toll Management System

Sept 2023 – Nov 2023

Engineered an automated system using IoT components, RFID sensors, and real-time data processing.

- Tools & technologies used: Vega Aries v3.0, ESP8266, RFID, C/C++, Firebase
- Engineered an automated system with IoT components and RFID sensors for smart parking and toll management, incorporating real-time data processing to optimize vehicle flow.

CERTIFICATIONS

•Summer School on AI Technologies UUST, Russia

2024

•AWS Cloud Architect AWS Academy Graduate

2024

•Introduction To Internet of Things (NPTEL)

2023

•Google IT Automation with Python Coursera

2024

PUBLICATIONS

- A Cloud-Based Telemedicine Platform: Enhancing Healthcare Accessibility through Technology

International Conference on Progressive Innovations in Intelligent Systems and Data Science

Published by IEEE Computer Society on IEEE Xplore

Dec 2024
- Efficient Parking & Toll Management:A RFID-Enabled Approach with Vega Aries Development Board

International Journal of Innovative Science and Research Technology (Volume 8, Issue 11)

Nov 2023

EDUCATION

- Bachelor of Engineering in Computer Science

Chandigarh University, Mohali

Coursework: Operating Systems, Data Structures and Algorithms, Database Management Systems, Computer Networks, SDLC, Artificial Intelligence, Cloud Computing

2021-2025
CGPA: 7.8/10
- Intermediate (Non-Medical)

Darshan Academy (CBSE), Punjab

2020-2021
Percentage: 81.4%
- Matriculation

Darshan Academy (CBSE), Punjab

2018-2019
Percentage: 83.6%