



Devansh Sharma

Bengaluru, India

+91-8437330408
✉ devsarrawatia@gmail.com
🐙 GitHub/adawatia
🌐 LinkedIn/adawatia

INTERNSHIPS

•Indian Institute of Technology Guwahati

Research Intern – Dept. of CSE (MARS Lab)

May 2023 – July 2023

North Guwahati, Assam

- Accelerated DNN inference on Network-on-Chip (NoC) architectures using **Timeloop, C++, and Python**. Focused on AI hardware-software co-design and simulation.
- Achieved **23% latency reduction** through optimized data mapping and efficient memory scheduling.
- Built and validated NoC simulation models to test various DNN workloads under different network topologies.
- Contributed to academic research on AI accelerator design and architectural performance analysis.

•Growth Purple (Remote)

ML Engineer Intern

June 2023 – October 2023

Hyderabad, India

- Developed a generative AI-based **PDF chatbot** using **LangChain, Streamlit**, and **LLMs** for real-time document interaction.
- Integrated Retrieval-Augmented Generation (RAG) for enhanced context awareness in chat responses.
- Achieved **90% accuracy** in parsing and querying complex PDF formats across diverse client datasets.
- Reduced customer support queries by **35%** through seamless document Q&A automation.

TECHNICAL SKILLS

Programming Languages: Python, C++, Rust

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

Database Technologies: PostgreSQL, Firebase

Data Science & Machine Learning: PyTorch, NumPy, Pandas, Matplotlib, Scikit-learn

Frontend Development: Flet, Streamlit, HTML, TailwindCSS

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

Interests & Hobbies: Linux, Cloud Computing, Artificial Intelligence, Karate, Reading, Video Games

PROJECTS

•Big Defend

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

Jan 2025 - Ongoing

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

•CHIP-8 Emulator

A CHIP-8 emulator in C++

June 2024 - July 2024

- 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.

•PaperWise

Engineered an intelligent PDF assistant.

June 2023 - Sept 2023

- Tools & technologies used: PySide6, Ollama, Langchain, Hugging Face API, Gemini
- Engineered an intelligent PDF assistant using PySide6, Ollama, and PyMuPDF for seamless document interaction, smart Q&A, and offline AI processing.

•Smart Parking & Toll Management System

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

Sept 2023 - Nov 2023

- 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

•NDG Linux Unhatched

Cisco NetAcad 2023

•Vega Processor Ecosystem

C-DAC, IEEE India Council 2023

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

Relevant Coursework:

Core Computer Science: Algorithms, Data Structures, Computer Architecture, Operating Systems

Data & Analytics: Big Data Analytics, Data Visualization, DBMS

AI & Networks: Machine Learning, Computer Vision, Computer Networks

2021 – 2025
CGPA: 7.76
- Intermediate (Non-Medical)

Darshan Academy, Ludhiana (CBSE)

2020 – 2021
Percentage: 81.4%
- Matriculation

Darshan Academy, Ludhiana (CBSE)

2018 – 2019
Percentage: 83.6%