Swayam Gupta

📞 +91-8250509535
✉ swayamgupta33@gmail.com

 GitHub Profile
 LinkedIn Profile

EDUCATION

- **Dayananda Sagar College of Engineering** *2021-2025*
  Electronics and Communication Engineering CGPA/Percentage: 7.78

EXPERIENCE

- **SalesUP Labs** *August, 2024 - November, 2024*
  Software Development Intern Kolkata, West Bengal - Remote
  - Developed internal-tools for streamlining the time taken for managing email campaigns and leads using and **FastAPI** & **Google Appscript** in collaboration with the product team including development web scraping API endpoints for lead generation and profile enrichment using **SERP** and contributing to the refactoring of the legacy backend from **Javascript** to **TypeScript**.

- **Mathrithms Technologies Pvt Ltd.(Aikin.club)** *May, 2024 - July 2024*
  Software Development Intern Hyderabad, Telengana - Remote
  - Built a web scraping framework in **Python** using web automation tools such as **Selenium** and **BeautifulSoup** for data analysis of various companies and storing it in a **MongoDB** database.
  - Implemented cronjobs to send real-time job data across multiple social media platforms using **GitHub Actions**.

- **Updropp.dk** *December, 2023 - February, 2024*
  Software Engineer Intern Copenhagen, Denmark - Remote
  - Developed and implemented a comprehensive dashboard using **ReactJS** for the **React-Native** mobile application. to showcase the energy savings for every item recycled.
  - Optimized the real-time database schema in **Firebase**, ensuring efficient data handling and real-time synchronization for the application.

PERSONAL PROJECTS

- **SimplLang - Compiler Frontend** *C++, CMake, Assembly*
  - Built a simple compiler front-end in **C++** including a **lexer**, recursive descent **parser** and assembly **generator** for an 8-bit simulated computer to compute declarations, assignments, expressions and conditionals.

- **Motion Amplification Video** *TensorFlow, OpenCV, FastAPI, AWS EC2, AWS S3, Boto3*
  - Contributed to the development of a cloud-based solution for vibration analysis by processing video clips extracting motion features frame by frame using **OpenCV**.
  - Assisted in writing **FastAPI** endpoints using **Boto3** for the web application, facilitating seamless integration and data processing.

- **Smart Fruit Classification** *TensorFlow, OpenCV, Flask, YOLOv7*
  - Trained a machine learning model for the classification and segmentation different fruits using using **YOLOv7** and **Tensorflow** capturing the images from a wireless **ESP32-CAM** module in real-time.
  - Created API endpoints in **Flask** to integrate the trained model to the frontend.

- **Food Price Tracking API** *Python, FastAPI ,Selenium ,MongoDB*
  - Developed a rate-limited API using **FastAPI** to scrape data using **Selenium** from various food delivery apps, comparing prices to provide the best available options and logging in a **MongoDB**

- **Blog API** *Django, Django Rest Framework, SQLite3*
  - Created a **Django Rest Framework** API for a creating, reading, updating and deleting blogs in a **SQLite3** database along with **JWT** based **a**uthentication.

TECHNICAL SKILLS

Languages: Python, C, C++, Javascript, TypeScript, Bash, 8051 Assembly, Verilog
Tools: AWS, Git, MongoDB, Jupyter Notebooks, GitHub Actions, Intel Quartus Prime, ModelSim, Firebase

Frameworks: Django, Tensorflow, Flask, FastAPI, CUDA
Libraries: Selenium, BeautifulSoup, Boto3, Dramatiq, Pandas, Matplotlib

ACHIEVEMENTS

- **Competitive Programming Stats:** Codechef: 1544; Codeforces: 1002; Google Kickstart: 4889

- **Huntress CTF:** Ranked 595 amongst nearly 9000 in a month long CTF challenge by Huntress.com

- **pbCTF:** Ranked 3rd in a Capture the Flag contest with nearly 50 participating members across campus