Shaswat Shah

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EDUCATION

Illinois Institute of Technology, Chicago, IL **May 2025**
M.S. Computer Engineering,

Gujarat Technological University, INDIA **May 2022**
B.E. Instrumentation and Control Engineering, GPA 3.6/4.0

TECHNICAL SKILLS

- Programming Skills: | C | C++ | Python |
- Frameworks/Libraries: Django/Flask | FASTAPI | NUMPY | PANDAS | OpenCV | Anaconda
- Database Systems: MYSQL | CouchDB
- Automation: Docker | Jenkins
- Version Control: Git | Gitlab | GitHub
- Other Skills: Linux | MS Office | Google Sheets | Google Docs

WORK EXPERIENCE

Programmer Analyst, Dosepack LLP, Gujarat **10/2022 - 06/2023**
- Designed and developed codes using python backend to automate robot's use for pill dosage automation using various python frameworks and using digital concepts like Finite State Machine.
- Redesigned machines in production with appropriate production rate planning for multiple projects like Drug Weight Refill Device and Canister Testing Device which are running on development boards like Raspberry Pi and Phidget.

Engineer Intern, Dosepack LLP, Gujarat, India **06/2022 - 09/2022**
- Worked as an embedded software intern to develop and deploy codes in production of robotic car working on STM32 microcontroller.
- Actively involved in new vendor development, creating presentations, and coordinating meetings on a weekly basis for senior leadership and other departments.

Project Intern, eInfochips Inc., Gujarat, India **02/2022 - 05/2022**
- Demonstrated use of STM32 microcontroller development boards with various sensors.
- Worked on python libraries like OpenCV for computer vision and build projects using SLAM to detect and develop a 2D Grid Map for robotic car to move according to the map.

PROJECT EXPERIENCE

WI-FI Automated Lights:
- I did data processing and visualization to check the results. We can use this in our houses with less power and great output. I created 2 APIS for sender and receiver from IFTTT, one for automating the lights and one for receiving the commands. I used Adafruit API for light's dashboard and google assistant API for receiving the command and sending the command to Adafruit.

Smart Irrigation System:
- Using my knowledge of sensors and computer data processing I created a project on irrigation systems. It detects the moisture present in soil of plants and signals if the moisture alleviates in the plant and sprinkles water on it.

VOLUNTEER EXPERIENCE

- Organized a fund raiser event which helped in sponsoring the education of 10 under privileged students in association with Non-Profitable Organization.
- Organized a food event around my hometown to feed the homeless people and distributed warm clothes.