

DIPTAYAN JASH

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EDUCATION

St. Paul's Academy

ISCE, ISC

Burdwan, West Bengal

Mar. 2011 – June 2022

SRM Institute of Science and Technology

B.Tech in Computer Science and Engineering

Chennai, India

Sept. 2022 – Present

EXPERIENCE

Samsung, India

Prism R&D Intern

Nov 2023 - Present

Remote

- Developed and evaluated image duplication methods, resulting in the creation of a precise filtering script.
- Categorized and analyzed open-source scripts based on effectiveness criteria.

SONY Research India

SONY SSUP Project Intern

Feb. 2024 – Present

Chennai, India

- Developed an autonomous navigation algorithm for robots
- Optimized encoder efficiency by 20% through the implementation of a closed-loop system for robotic applications.

IIT Madras

Summer Intern

June 2023 – July 2023

Chennai, India

- Implemented MQTT protocol for efficient sensor data transfer and developed a web application for data visualization.
- Programmed TIVA TM4C1294NCPDT microcontroller boards for streamlined sensor data acquisition.

SRM Team Robocon

Embedded Programmer

Dec. 2022 – Present

College Club

- Developed and programmed robots for the DD ROBOCON Competition, resolving complex Arduino issues.
- Designed and built IoT devices using Arduino, ESP32, and Raspberry Pi for various applications.

PROJECTS

Altium Workshop | React, Node.js, Tailwind CSS, Firebase

Sept. 2023 – Oct. 2023

- Developed a comprehensive Altium Workshop website using React, Tailwind CSS, and Firebase.

JCRM Website | NextJS, ExpressJS, Tailwind css, EmailJS, Framer Motion, MongoDB

Aug. 2023 – Present

- Built company website (Jyotish Chandra Rice Mill) with API integration for product data and contact forms.
- Improved backend performance by 10% through optimizations.

LingoFlow | Python, Pytorch, Tensorflow, React, Tailwind, Flask, AWS

Sept. 2023 – Dec. 2023

- Achieved finalist status in the Smart India Hackathon College Finals.
- developed English-to-Hindi translation system with focus on regional dialects and cultural sensitivity.

Robocon 2023 | Arduino, Raspberry Pi, Raspberry Pico, C++, Python, ROS2

Dec. 2022 – June 2023

- Developed robots for ABU Robocon 2023, achieving AIR 11 and a perfect 100/100 score in Stage 1 of Robocon'24
- Implemented inverse kinematics and NRF-based radio protocol for efficient robot communication.

SKILLS

Languages: Java, Python, C/C++, Embedded C, JavaScript, HTML/CSS, Swift

Frameworks: React, NextJS, Node.js, Flask, WordPress, NLTK, Keras, ROS2

Tools: Git, Docker, GCP, VS Code, PyCharm, IntelliJ, Eclipse

Libraries: Pandas, NumPy, Matplotlib

Soft Skills: Leadership, Event Management, Writing, Public Speaking, Time Management

ACHIEVEMENTS

Smart India Hackathon (SIH) Finalist: Successfully advanced to the finals of SIH.

Robocon' 23 Accolades: Achieved an impressive 11th position among 110 participating colleges in Robocon' 23. Awarded the Fusion 360 recognition for outstanding contributions.

RoboRoarZ: Secured 2nd place in RoboRoarZ Singapore Competition among 60 international teams by developing the fastest maze-solving robot with a record time of 30.1 seconds.

COURSES & CERTIFICATIONS

Stanford Online: Supervised Machine Learning: Machine Learning

Google: Crash Course on Python: Python

Johns Hopkins University: HTML, CSS, and Javascript for Web Developers: HTML, CSS, JS

AWS: Machine Learning Foundations: AWS, ML, Cloud

MathWorks: Image Processing Onramp: ML, OpenCV, Images