

SWARNAVA GAYEN

Software Engineer

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📍 Kolkata - India

⚡ [Portfolio](#)

in [LinkedIn](#)

🔗 [GitHub](#)

EXPERIENCE

SDE Intern

ITJOBXS

📅 August 2023 – March 2024 📍 Remote

- Engineered a responsive front-end for a key product section using HTML, CSS, and JavaScript, increasing the click-through rate (CTR) by 15%.
- Developed a secure back-end authentication system using PHP and MySQL, which reduced fraudulent sign-ups by over 40%.
- Secured web application forms by integrating the Google re-CAPTCHA API, cutting automated spam and bot submissions by over 95%.
- Tech Stacks: HTML5, CSS3, JavaScript (ES6), Bootstrap, PHP, MySQL, JSON, REST APIs.

ACHIEVEMENTS

- Recognised for completing Hacktoberfest 23 by successfully contributing 4 pull requests to 4 distinct open-source organisations.
- Led a 4-member team to secure a 3rd place ranking out of 21 competing teams for the final year capstone project.

TECHNICAL SKILLS

• Programming Languages

- Python, JavaScript (ES6), SQL, PHP, C++, C

• Web Development

- HTML5, CSS3, Bootstrap, REST APIs, Node.js (Basic)

• Databases

- MySQL, Relational Databases, Database Management

• Data Science & ML

- Scikit-learn, NumPy, Pandas, Matplotlib, Data Analysis, Machine Learning

• IoT & Hardware

- ESP8266, ESP32, Arduino, MQTT, ThingSpeak API, Adafruit IO

• Developer Tools

- Git, GitHub, VS Code, Postman, CI/CD (Principles)

• Methodologies

- Object-Oriented Programming (OOP), SDLC

EDUCATION

B.Tech. (ECE) - 8.6 CGPA

Techno Main Salt Lake, MAKAUT

📅 Aug 2020 – July 2023

Diploma (ECE) - 7.2 CGPA

Techno Main Polytechnic, WBSCTE

📅 Aug 2017 – July 2020

PROJECTS

Taxi Fare Prediction

- **Tech Stack:** Python, Scikit-learn, NumPy, Pandas, Matplotlib
- Engineered a predictive model using Python and Scikit-learn that achieved 92% accuracy in forecasting taxi fares.
- Designed and launched a real-time UI that boosted user experience scores by 27%.

[Github](#)

IoT based Weather Station

- **Tech Stack:** Python, Pandas, Matplotlib, ESP8266, ThingSpeak API
- Built and deployed a serverless IoT weather station using a NodeMCU 8266 to stream live sensor data to the ThingSpeak API, maintaining 99.5% data transmission uptime.
- Performed time-series analysis on collected data using Pandas.

[Github](#)

IoT Smart Energy Meter

- **Tech Stack:** Arduino (C++), MQTT, ESP8266, Adafruit IO, Zapier
- Developed a full-stack IoT energy meter with an Arduino and ACS712 sensor, providing real-time consumption data with 98% accuracy via an Adafruit IO dashboard.
- Implemented automated high-usage alerts using MQTT and Zapier webhooks.

[Github](#)