# DIPTANIL SAHA

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## EDUCATION

**B.Sc. in Computer Science**, St. Xavier's College (Autonomous), Kolkata                                      June 2024
GPA: 7.23

## SKILLS

| | |
|---|---|
| **Languages** | Python, JavaScript, C, PHP, C++, Java, Kotlin, HTML, CSS |
| **Frameworks** | Django, Flask, Node.js, Vue.js |
| **Tools** | Git, Docker, AWS |

## PROJECTS

**Proctor** Python, Flask, MySQL, SQLite, PyQt, Socket.io          [GitHub - Proctor Web](#)    [Github - Proctor App](#)

- Application suite to counter unfair practices like using USB Flash Drives in Computer based Assessments in Educational Institutions.
- Application Suite contains a **Web App** and a **Desktop App**.
- Web Application was implemented using **Flask**, **MySQL**, **Socket.io** to monitor the Candidate Computers in Real-Time during an Assessment.
- Desktop Application was implemented using **PyQt**, **Socket.io**, **SQLite**, **WMI** (for Windows), **libudev** (for Linux) to monitor Connection or Disconnection of USB devices on Candidate's Computer and further communicate with the Proctor Server (Web App).

**exabyteCert** Python, Flask, SQLite, Python Imaging Library, click                              [GitHub](#)

- A **CLI** and **Web Application** to generate and distribute 'Certificate of Participation'.
- Implemented **Python Imaging Library** to generate Certificates.
- Utilized **Flask** and **SQLite** to build the Web Application for participants to access their certificates.
- Utilized **click** to implement the CLI application to generate Certificates in batch.

**takeNotes** Python, Django, SQLite                                                        [GitHub](#)

- A **Django** CRUD Application for note taking.
- Implemented **django-allauth** library for Authentication and Authorization.
- Implemented frontend using **HTML**, **bootstrap** and **JavaScript**.
- Utilized **SQLite** for database management.

**ptitweets2img** Python, Python Imaging Library, SQLite, tweepy                          [GitHub](#)  [Instagram](#)

- Created a Bot to convert tweets to JPG format.
- Retrieved tweets using **tweepy** python library.
- Implemented **Python Imaging Library** to generate Image of the tweet in JPG Format.
- Utilized **SQLite** for database management and was hosted on **replit.com**.

## EXTRA-CURRICULAR ACTIVITIES

- Website Developer - Xavotsav 2024 (Annual Cultural Festival of St. Xavier's College, Kolkata)
- Website Developer - exabyte 2024 (Annual Technical Festival of St. Xavier's College, Kolkata)