Srijit Sen

Bangalore, India | <u>LinkedIn</u> | <u>Github</u> | <u>Portfolio</u> | <u>Email</u>

EDUCATION

Manipal Institute Of Technology   **Present – July 2026**
Bachelors of Technology in Computer Science   *Bangalore, India*
C.G.P.A.: 8.8/10

TECHNICAL SKILLS

Languages: Python, Java, C, C++, PHP, Javascript, CSS, HTML, SQL(MySQL)
Frameworks and Libraries: RestAPI, FastAPI, Flask, requests, ElasticsearchDB, NumPy, JSON, Matplotlib, Pandas, OpenPyxl, Tailwind CSS, Pygame, PyTorch, Scikit-Learn.
Tools and Software Packages: GCP, Microsoft Intune, MCP Server, PyCharm, Postman, CursorAI, ErrorViewer, MATLAB, Google Cloud, Figma, AutoCAD, Adobe Premiere Pro, CodePen, Anaconda.

EXPERIENCE

Ruckus Networks   **Jul 2025 – Present**
SDE Intern, BDC Team   *Bangalore, India*
- Designed and implemented end-to-end system architecture by developing a **Flask REST API** server and supporting **React** frontend integration. Enabled seamless communication between the conversational AI interface, **MCP server**, and backend testing engine. Built automated reporting pipelines using **openpyxl** to generate structured test analytics, performance metrics, and real-time operational insights.
- Engineered a **Python-based CIOT backend** testing framework from scratch, integrating **Microsoft Graph API**, **Ruckus R1 Cloud API**, and **Google Workspace API** to enable cross-platform device discovery and orchestration. Automated test case generation using **pandas**, executed multi-protocol validation workflows, and implemented **Elasticsearch DB** data persistence with **SHA-256** hash-based test case deduplication, reducing manual testing time and efforts by **X%**.

Oasis InfoByte   **Jun 2024 – Jul 2024**
Web Developer Intern   *Remote*
- Built responsive single-page portfolio and landing page templates using **HTML5**, **Tailwind CSS**, and **JavaScript**, and deployed on **Google Cloud**.
- Integrated **Formspree** for real-time query handling and used tools like **CodePen**, **Postman**, and **Sublime Text** to streamline remote development.

PERSONAL PROJECTS

Leak Pro - LPG Gas Detection and Auto Cut-Off System | Arduino Uno, GSM Module, Gas Sensor, Servo Motor, C, Arduino IDE | <u>assets</u>
- Collaborated with a team to build an LPG gas detection system targeting Indian households, designed to **automatically shut off** the gas source upon leakage detection, minimizing the risk of accidents. Developed a compact hardware prototype using **Arduino Uno**, **M50 gas sensor**, **GSM module**, **jumper cables**, and a **gas lighter**.
- Implemented a low-latency auto alert system to transmit sensor data to the user's device in real-time. Authored a detailed **research paper** documenting the project's objectives, hardware integration, and proposed preventive solution.

LibriSphere - Virtual AR Library | Unity-AR foundation, AR-Core, AR-Kit, C# | <u>assets</u>
- Developed a virtual AR mobile app that can generate a **3D model in virtual reality** by simply scanning the image of the object.
- Implemented AR features into the app, using **ARCore** for android and **ARKit** for iOS.

P-2-P File Sharing System | Python, Tkinter, File handling |
- Developed a system/server to share any type of file to any number of specified clients ove rthe same active internet connection (wifi/hotspot/ethernet).
- Built using **client-server networking principles** and **file handling operations** using Python for the backend development.
- Used python's built in **GUI module** *tkinter* to develop the frontend for simplicity and easy-to-use user interface.

PennyWorth - Personal expense tracker Application | Unity, C#, PHP, MySQL, phpMyAdmin | <u>assets</u>
- Developed a personal expense tracker with **PHP backend**, using **phpMyAdmin (MySQL)** for centralized, *machine-independent* data access and intuitive **graphical analysis** (*charts*, *pies*).
- Ensured user privacy by storing credentials with **SHA-256 hashing**, achieving **100% platform independence** and ensuring user privacy.

COURSEWORK

Python for Software Development • Algorithmic Toolbox • Supervised Machine Learning • SQL Basic • Object Oriented Hierarchy in Java

POSITIONS OF RESPONSIBILITY

CodeX, The Technical Club Of MITB   **Aug 2023 – Sept 2024**
Media Lead
- Managed media relations with professors and the director while leading a photography team to cover institutional events, ensuring consistent social media visibility and college magazine recognition.

AWARDS AND ACHIEVEMENTS

National Science Week 2024 - Night Photography | FIRST
National Science Week 2024 – Ideathon | FIRST RUNNER-UP — an EV charging solution using piezoelectric crystals integrated into tires or motors, estimating an additional 21 km/cycle
Rubaru '24 Cultural Fest - Spot Photography | FIRST RUNNER-UP
Rubaru '25 Cultural Fest - Spot Photography | SECOND-RUNNER-UP

EXTRA CURRICULAR ACTIVITIES

Composed an original song *"Homebound"* **for an indie game by** DThePro **for nomediagames studio along with** Apratim Guha deb
Made a short film "Butter and Vanilla" with Sharp Notes Agency as partners. *Watch It Here!*
Participated in a Goedware Gamejam with DThePro **and** Apratim **and claimed 3rd place. [PROJECT PHANTOM]**. *Play Now!*