

# Sanjh Dey Sarker

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## Technical Skills

**Languages:** Python, JavaScript, TypeScript, C, C++

**Framework:** Flask, Django, FASTAPI, Express.js, React.js, Node.js, Web-socket, Next.js

**AI-ML Framework:** TensorFlow, Py-Torch, Scikit-learn, pandas, Numpy, Matplotlib, OpenCV, spaCy

**Database:** MongoDB, MySQL, Redis

**Tools:** Git & Github, Linux Shell, Nginx, Docker, Azure, AWS, CI/CD Automation, CircleCI, RabbitMQ, kafka

**Architecture & Design Patterns:** Microservices Architecture, Serverless Architecture

## Work Experience

### OUTLIER AI

March 2025 – September 2025

#### AI-INTERN

REMOTE

- Collect, clean, preprocess, and analyze datasets to prepare them for AI/ML models.
- Explore recent AI techniques, frameworks, and tools, contributing to innovative solutions.
- Assist in designing, training, and evaluating machine learning or deep learning models.
- summarize findings, insights, and model outcomes in reports or presentations.

## Personal Projects

**ORCHESTRATOR-AI : [react with typescript,stream-chat,Node.js,express.js,Open-Ai,Getstream.io,Shadcn/ui,Tavily-api] [LINK](#)**

- Sophisticated AI-powered chat platform that can help users with research,content-creation,real-time collaboration.
- Realtime chat powered by getstream.io, ai-writing assistant-openAi, gpt-4 integration, live websearch using Tavily API.
- JWT-based token client authentication,current-information search capabilities,Dynamic AI-agent lifecycle management.
- Pending agent tracking to prevent duplicate creation agent platform support.using GPT-4o model.

**LINKEDIN-VIDEO-DOWNLOADER : [Python, Flask, yt-dlp, HTML5, CSS3, JavaScript (AJAX), Unicorn] [LINK](#)**

- Developed a web-based tool that allows users to download LinkedIn videos directly by pasting the post URL.
- Implemented robust backend logic to handle video extraction from LinkedIn posts efficiently.
- Responsive web interface compatible with desktop and mobile.
- SEO-friendly frontend with meta tags and schema for discoverability.

**DebForge – Linux .deb Package Generator (C++) [LINK](#)**

- Developed a C++17 CLI tool to convert compiled binaries into Debian .deb installers.
- Implemented interactive user prompts and automatic architecture detection (amd64, arm, i386).
- Added CI/CD compatibility with command-line parameter support.
- Utilized CMake, dpkg-deb, and std::filesystem for build and packaging automation.

**PyEJS – A Python EJS-Like Template Engine [Python, HTML, StringIO, File I/O] [LINK](#)**

- Built a **lightweight EJS-style template engine** in Python for rendering dynamic HTML.
- Supports `<%= variable %>` and `<% code %>` syntax for variables and logic blocks.
- Integrated **PyEJS with FastAPI** to serve dynamic templates in web applications.
- Designed a **buffer-based rendering system** using `io.StringIO` for efficient output.
- Published to PyPI, installable via `pip install pyejs`.

**AI-Based Medical Assistant Chatbot [Python, Flask, HTML, CSS, JavaScript, scikit-learn, spaCy, MySQL] [LINK](#)**

- Developed an intelligent web-based chatbot that predicts diseases from user-input symptoms using machine learning models trained on healthcare datasets. Aimed to assist users in underserved areas with accessible, AI-driven medical guidance.
- Integrated NLP-based chatbot using spaCy to deliver personalized health tips, basic home remedies, and suggestions on when to seek professional help.
- Designed a responsive UI for ease of use by non-technical users and implemented real-time conversation handling.
- Stored symptom logs and user history securely in MySQL for follow-up interactions and health tracking.

## Education

### Techno India University

NOV. 2021 – July 2025

BTECH in Computer Science Engineering & Business System

CGPA: 8.5

Kamala Girls School (Kolkata)

2020-2021

Class XII (PCMC)

percentage:80.6

Kamala Girls School (Kolkata)

2019

Class X

percentage: 88.71