

# Deep Sarker

Full Stack Developer | Python, React, Cloud | AI-Enabled Applications

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## SKILLS

- **Backend Development:** Python, Django, FastAPI, Flask, SQLAlchemy, Beanie, MariaDB, PostgreSQL, MongoDB, Gnocchi, Celery
- **Frontend Development:** React, Next.js, TypeScript, JavaScript, Tailwind CSS
- **Cloud & DevOps:** AWS (Lambda, EC2, S3), GCP, Docker, CI/CD pipelines
- **AI/ML Integration:** LLM fine-tuning (RLHF), NLP, Computer Vision, OpenAI Whisper
- **Architecture & Systems:** Microservices, REST APIs, Authentication (JWT, OAuth), Message Queues (RabbitMQ)
- **Collaboration & Tools:** Jira, Figma, Git, Agile/Scrum

## WORK EXPERIENCE

LightHouse

Full Stack Developer

Aug. 2025 – Present

Bangladesh (Remote)

- Developed a comprehensive **LinkedIn** management platform with **Next.js** frontend and **FastAPI** backend, enabling seamless content management and post automation.
- Built scalable microservices architecture using **Docker**, **MongoDB**, **Beanie**, **Redis** and **Celery** with multi-environment deployment pipelines supporting development, staging, and production.
- Implemented secure **OAuth** integration with **Google**, **LinkedIn**, and **Apple** for LinkedIn post management, analytics and advanced metrics tracking.
- Engineered an AI-powered content generation system as part of the platform's roadmap to provide automated, data-driven post suggestions.

Turing

Python LLM Trainer

Oct. 2024 – Present

United States (Remote)

- Fine-tuned **LLMs** with **RLHF** to improve task accuracy by 30% across 15+ **Microsoft** application features.
- Designed AI solutions for **ServiceNow**, optimising 25 business workflows and raising operational efficiency by 40%.
- Developed **Complex Reasoning** & **Agentic** task models, enabling 500+ automated operations and reducing execution time by 50%.

Nexgen Cloud

Full Stack Developer

Nov. 2023 – Sep. 2024

United Kingdom (Remote)

- Developed a billing system using **Gnocchi** to meter cloud resources, which is fully integrated into customer portals.
- Delivered admin APIs for **VM** flavour & OS image management aligned with **AWS/Azure** standards, improving provisioning speed.

- Implemented **VM locking**, lifecycle APIs & audit logging to enforce compliance and transparency.
- Refactored legacy codebases, optimised endpoints, and enabled multi-service authentication, improving API performance by 25%.
- Applied **TDD** & database migrations, boosting test coverage and reliability of mission-critical APIs.

## Cognitech BD

*Full Stack Developer*

**Sep. 2022 – Oct. 2023**

*Dhaka, Bangladesh*

- Designed backend platforms with **Python, Django**, and **PostgreSQL**, supporting thousands of concurrent users.
- Orchestrated background jobs with **Celery**, ensuring high responsiveness and scalability.
- Built **JWT**-based authentication & secure sessions, strengthening platform security.
- Integrated **OpenAI Whisper** for audio/video transcription, enabling searchable media archives.
- Developed video-to-GIF APIs and deployed applications in **Docker** for consistent, portable environments

## Independent Contracting

*Python Backend Developer (Contractor)*

**Jun. 2021 – Aug. 2022**

*Dhaka, Bangladesh*

- Developed full-stack systems with **FastAPI, React, Next.js**, enabling efficient content scraping & media archiving
- Engineered secure backends using **SQLAlchemy** ORM, **JWT** access control, and **BCRYPT** hashing
- Managed **AWS & Azure** deployments with **CI/CD** pipelines, ensuring high-availability production environments.
- Delivered reliable tools with a focus on performance, scalability, and security for diverse clients.

## EDUCATION

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### Daffodil International University

*Degree (BSC), Majors (Computer Science and Engineering)*

**Dec. 2022**

*Dhaka, Bangladesh*