Siddhartha Mitra

+91 6290232886| siddharthamitra123@gmail.com |
github.com/siddhartha0790

EDUCATION

IIIT Bhubaneswar Bhubaneswar, Odisha
Bachelor of Computer Science Engineering, 8.16 CGPA *Aug 2023 – May 2027*

Air Force School Barrackpore Kolkata, West Bengal
Higher Secondary Education, 93.6

PROJECTS

DevConnect | *Python, Django, Javascript, HTML, CSS, PostgreSQL, Docker* Github
- Developed a Full Stack Django Application for Developer Community
- Implemented user interactions through upvotes, downvotes, comments, and personal inbox messaging.
- Developed user profiles for developers to showcase skills, projects, and experience, enhancing community engagement.
- Implemented Redis to cache data from the database for improved performance and faster access.

API Status | *Python, Django , Celery , Celery-Beat , Redis , Postgresql* Github
- Built a real-time API uptime monitoring service allowing users to register and track custom endpoints
- Enforced asynchronous background workers using Celery and Redis to periodically ping user-defined endpoints
- Captured metrics like uptime percentage, response time, and HTTP status codes, stored in PostgreSQL.
- Developed a failure detection and notification system, triggering alerts via email.
- Designed a simple UI with user authentication and API logging option , customizable intervals to ping the APIs.

CryptoBlind | *Python, DRF , Cryptography , AES-256-GCM, RSA-2048 (OAEP), PostgreSQL* Github
- Built a zero-knowledge encrypted file storage system where all encryption/decryption happens on the client side
- Implemented hybrid encryption using AES-256-GCM for files and RSA-OAEP for secure key wrapping
- Designed a crypto-blind Django REST backend that stores only encrypted data and metadata
- Solved real-world issues around binary data transport, key lifecycle management, and secure API design
- Developed a Python client SDK abstracting cryptography, authentication, and file upload/download flows

Graph Network | *Python, Django, Neo4J* Github
- Built a platform enabling users to build a network with each other with customized relationship types (Friend , Family , Colleague , Partner ,etc).
- Used graph algorithms like BFS , Minimum spanning tree,etc to recommend people according to their network.
- Used the Pagerank algorithm to rank people according to their popularity.
- Users with Admin level permissions can visualize the overall network in the form of nodes, edges , relationships ,etc

ACHIEVEMENTS

- Secured a spot in the Top 30 of Kleos 2.0 National Hackathon from 700 teams.
- Finalist at D3 Hackathon, IIIT Bhubaneswar
- Solved 400+ coding problems across various DSA platforms (LeetCode, GeeksforGeeks, etc.)
- Secured 97.4 percentile in JEE mains 2023.

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript, HTML/CSS
Frameworks: Django, Django REST, Flask, Bootstrap, Tailwind , HTMX
Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm
Databases: SQL, PostgreSQL, Redis , Neo4J
Other Skills: Operating Systems , Computer Networks, DBMS , OOPS , Data Structures and Algorithms, Cryptography