

SUJAY KUMAR MONDAL

System Engineer | Python Developer

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Experienced Python Developer with over 2 years of hands-on expertise in building scalable backend applications using FastAPI. Adept at designing RESTful APIs, integrating third-party services, and implementing efficient database models. Strong foundation in software architecture, API security, and clean code practices. Proven ability to collaborate in startup environments and deliver high-quality, production-ready code. Currently expanding skills in advanced Django and backend architecture.

WORK EXPERIENCE

System Engineer

Surelia Infosystems Private Limited

08/2023 - Present

Newtown, Kolkata

Achievements/Tasks

- Developed and maintained RESTful APIs using FastAPI, improving application performance and scalability across multiple projects
- Designed and optimized database schemas using PostgreSQL and MySQL, leading to a 25% improvement in query efficiency
- Collaborated with client teams to implement clean API contracts, enabling seamless integration and reducing bugs during deployment
- Developed and deployed multiple independent microservices using FastAPI, enabling modular architecture and improving maintainability and scalability of the overall system
- Collaborated with cross-functional teams to design inter-service communication using REST and message brokers (e.g., Kafka), enhancing system reliability and performance.

EDUCATION

MCA

Brainware University

06/2021 - 06/2023

88.74%

B.S.C in Computer Science

Syamaprasad College, Calcutta University

06/2018 - 06/2021

65%

SKILLS

Python Programming

FastAPI

Django

Database Management(SQL)

DevOps Practice(Cl/CD)

Version Control(Git,Github)

Redis Caching

API Development & Integration

Team Handling

Troubleshooting & Debugging

PERSONAL PROJECTS

Weather Project:

https://github.com/SujayKumarMondal/Weather_Django_New (03/2025 - 03/2025)

- Built a real-time weather forecasting web application using Django and OpenWeatherMap API to fetch and display dynamic weather data by city
- Designed responsive front-end interfaces with Django templates and Bootstrap, enhancing user interaction with city-wise weather search and results
- Implemented clean URL routing and modular views , ensuring efficient request handling, scalability, and clear MVC structure for future enhancements

Auth Project: <https://github.com/SujayKumarMondal/FastAPI-OAuth2> (08/2024 - 09/2024)

- Developed a secure user authentication system using FastAPI, OAuth2, and JWT, enabling token-based access control with hashed credentials via bcrypt
- Integrated MySQL database with SQLAlchemy ORM to manage user data and authentication states, including Google Client ID and Secret validation

E-Commerce & Market Data

Platform: <https://github.com/SujayKumarMondal/FastAPI-OAuth2> (01/2025 - 02/2025)

- Built a full-stack FastAPI microservices platform
- It combines e-commerce functionalities with real-time market data analytics
- Implemented modularity using microservices architecture, MySQL, and Redis Streams

MFA Auth

Project: <https://github.com/SujayKumarMondal/MFA-Django-React> (07/2025 - Present)

- Multi-Factor Authentication (MFA) with TOTP & OTP
- JWT-Based Authentication with Refresh Tokens
- Redis-Backed OTP & Session Caching
- React (Vite) Frontend with Protected Routes & Token Handling
- Looking for to implement WebAuthn / FIDO2 (Passwordless Login) and Adaptive MFA (Context-Aware Security)

INTERESTS

Building Side Projects

Exploring Open Source Platforms

Solving Coding Challenges

LANGUAGES

English

Professional Working Proficiency

Bengali

Native or Bilingual Proficiency