

Sanoop Sanu

Python | FastAPI Developer | Data Analyst

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Professional Summary

B.Sc. Computer Science graduate (2024) with professional experience as a FastAPI Developer Intern at Nexsofture. Expertise in building scalable backend systems using Python, FastAPI, SQLAlchemy, and MySQL. Strong analytical background in data analysis and machine learning, with hands-on experience across the full software development lifecycle. Proven ability to implement secure authentication systems, optimize databases, and deliver production-ready APIs.

Core Technical Skills

- Programming Languages: Python, SQL
- Backend Frameworks: FastAPI, SQLAlchemy, Pydantic
- Authentication & Security: OAuth2, JWT, Passlib, Bcrypt, RBAC
- Databases: MySQL (Optimization, joins, window functions)
- Data Analysis: pandas, NumPy, SciPy
- Machine Learning: scikit-learn, TensorFlow, PyTorch
- Data Visualization: Matplotlib
- Frontend Integration: HTML, CSS, Jinja2
- Version Control & Tools: Git, GitHub

Professional Experience

FastAPI Developer Intern – Backend Development

Nexsofture | Nov 2025 – Present

- Designed and developed a scalable Student Management System using FastAPI, SQLAlchemy.
- Implemented RESTful APIs with secure CRUD operations following best backend practices.
- Built robust authentication and authorization using OAuth2, JWT, and role-based access control.
- Applied schema-driven validation with Pydantic to ensure high data integrity and reduce API errors.
- Optimized SQL queries and database relationships to improve application performance.
- Collaborated with frontend to integrate Jinja2 templates and backend services.

Academic & Professional Projects

- **FastAPI Authentication System:** Implemented JWT-based OAuth2 authentication, bcrypt password hashing, and RBAC to secure API endpoints.
- **Student Management System:** Full-stack FastAPI application with SQLAlchemy ORM, server-side validation, and optimized queries.
- **Hospital Management System:** Backend-focused project integrating MySQL with FastAPI, including advanced SQL queries for reporting and analytics.

Education

Bachelor of Science (B.Sc.) – Computer Science | Aug 2021 – May 2024
Manonmaniam Sundaranar University (MSU), Tirunelveli
Academic Score: 72.9%

Higher Secondary Certificate (12th Grade) | Jun 2019 – Apr 2021
Government Higher Secondary School (GHS), Munchirai
Academic Score: 81%

Secondary School Certificate (10th Grade) | Jun 2018 – Apr 2019
Don Bosco Matric Higher Secondary School, Miladalakadu
Academic Score: 77.8%

Additional Skills & Strengths

- Strong understanding of software engineering principles and clean architecture.
- Experience with AI-assisted development to improve coding efficiency and problem-solving.
- Ability to translate business requirements into scalable technical solutions.
- Quick learner with strong debugging, documentation, and communication skills.

Career Objective

To secure a challenging Backend Development or Data Analytics role where I can leverage my technical expertise, analytical mindset, and passion for continuous learning to build reliable, data-driven software solutions

Contact Details

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Current Location: Tambaram, Chennai, TN

Permanent Location: Thengapattanam, Kanniya Kumari District, TN