

MANOJ KUMAR A

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SUMMARY

Software Engineer with 4+ years of experience developing scalable APIs and optimizing system performance. Skilled in Python and Django, with a focus on writing clean, maintainable code and improving system architecture for high availability and efficiency.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript

Web Frameworks: Django, FastAPI, Angular

Databases: MySQL, PostgreSQL

Others: Agile Methodology, API Design, Performance Optimization, AWS, OAuth2.0

EXPERIENCE

Eurofins IT Solutions

Software Engineer

Bangalore, India

Sept 2021 - Present

- Engineered **RESTful APIs** using Django rest framework, optimizing scalability and concurrency, reducing response time, and increasing data processing speed.
- Designed **API rate limiting** to prevent system overload, reducing excessive requests and ensuring **high availability** under peak traffic conditions.
- Developed **efficient logging mechanisms**, improving the tracking and reducing the time to resolution of the bugs by 30%.
- Optimized **ORM queries** by identifying and **adding missing indexes** and eliminating **N+1 query issues**, improving query performance and reducing data retrieval time by **25%**.
- Automated data purging** with **Celery Beat**, periodically removing outdated records, reducing database size and improving server performance.
- Implemented **email notifications** using **Celery and Redis**, ensuring real-time delivery of **test results and sample status updates**.
- Established **audit logging** using **Django Middleware and Signals**, tracking critical events like sample updates and report modifications for regulatory compliance.
- Integrated **caching for test and sample data** using **Redis**, reducing external API calls and database and improving response times by **40%**.
- Contributed to the development of a **chat bot** to streamline the creation of a knowledge base, significantly **improving the efficiency of 60% in resolving redundant production issues**.

Philips

R&D Intern

Bangalore, India

May 2020 - August 2020

- Developed a RESTful web service using Spring Boot to automate OWASP ZAP scans, **evaluate API vulnerabilities, and produce security reports**.
- Contributed to the implementation of data pipelines and APIs for integration into clinical workflows for Philips Intelispace Cognition.

ACHIEVEMENTS

- Recognition Award - Eurofins IT Solutions** - Recognized for development of a chatbot aimed at resolving production issues and streamlining knowledge base creation.

PERSONAL PROJECTS

- ShopQuest (Web Application)**

Built an E-commerce platform using Angular and Django for seamless buying and selling of products. Developed an Inventory Management System with Django Signals for real-time stock updates and used Celery to dynamically highlight the most popular and best selling products.

EDUCATION

University Visvesvaraya College of Engineering, Bangalore

B.E. Information Science Engineering

2017-2021

Percentage: 76%