

MANOJ KUMAR A

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SUMMARY

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

TECHNICAL SKILLS

Programming Languages: Python, C#, JavaScript

Web Frameworks: Django, Dotnet, Angular

Databases: MySQL, PostgreSQL, SQL Server

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

EXPERIENCE

Eurofins IT Solutions

Software Engineer

Bangalore, India

Sept 2021 - Present

- Developed and optimized **RESTful APIs** to ensure **high scalability and concurrency**, reducing response times and enhancing data processing speed by **40%**
- Designed and implemented **efficient logging mechanisms** with **transaction tracking and structured logging**, improving system observability and reducing bug resolution time by **30%**.
- Optimized **database performance** by identifying and resolving issues such as missing indexes and redundant queries, leading to a **25%** reduction in data retrieval time and improving overall query execution efficiency.
- Implemented **API rate limiting and request throttling** to enhance system reliability under **high traffic conditions**, ensuring consistent system availability.
- Automated **background task execution** to offload periodic processes, improving system efficiency.
- Integrated **caching strategies** to minimize external API calls and reduce database load, improving response times by **40%**.
- Established **audit logging and event tracking** using event driven architecture, ensuring system changes are recorded in a structured manner for compliance, debugging and security monitoring purposes.
- Developed **modular, reusable, and scalable components** following best practices in software architecture, improving maintainability and reducing redundancy.
- Enhanced **security and compliance measures** by enforcing access controls and monitoring mechanisms to safeguard sensitive data and prevent unauthorized access.
- Designed and implemented a Lab Report Generation System using the Builder Pattern, enabling customizable test reports, reducing manual effort by 40

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 Intel-lispace 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%