Manish Kumar

3+ years of experience | Bengaluru, India | +919470226540 | krmanish2101@gmail.com

EDUCATION

TEZPUR CENTRAL UNIVERSITY
B.Tech in Electrical Engineering
July 2017 - July 2021

LANGUAGE

- Python
- JavaScript
- C
- SQL

TECHNICAL SKILLS

- Flask
- Django
- Zope
- RESTful API
- RabbitMQ
- Web sockets
- SAlchemy
- MongoDB
- Docker
- kubernetes
- Unit Testing
- Pytest
- Git
- CI/CD
- Clean Architecture
- Modular Architecture
- Shell Scripting
- NodeJs
- React
- AWS
- Splunk

LINKS

Web: **gomanish**
Github: **gomanish**
LinkedIn: **gomanish**

EXPERIENCE

ZEOMEGA Healthcare Technology Company

Senior Software Developer | Jul 2024 – current

- Led **high-priority** projects, coordinating efforts across multiple teams to deliver key features on time and in line with business objectives.
- Improved **API performance** by optimizing **caching**, **queries**, and data handling methods like **pagination** and **filtering**, resulting in a **20%** faster response time.
- Automated application deployment using **CI/CD pipelines**, reducing manual intervention and increasing **efficiency by 30%**.
- Designed and implemented APIs following **Clean Architecture principles**, improving **maintainability** and **scalability**.
- Refactored monolithic applications into modular **components**, enhancing **code reusability** and **maintainability**.

Software Developer | Sep 2021 – Jun 2024

- Designed and implemented **RESTful APIs** using **Flask**, enhancing data exchange and system interoperability.
- Leveraged **Docker** for streamlined application **deployment** and management.
- Implemented **message queuing** systems using **RabbitMQ** for efficient communication between services.
- Leveraged **SQLAlchemy ORM** for efficient data interaction with **SQL Server**, writing and optimizing complex queries to support critical **business processes**.
- Implemented **caching** strategies using **Memcached** and **in-memory** caching to optimize data retrieval and **enhance application performance**.
- Implemented automated **testing** procedures with tools such as **requests** and **pytest**, optimizing the testing workflow for swift and dependable validation of API endpoints, thereby enhancing overall efficiency.

PROJECTS

APP CONTROLLED PORTABLE VENTILATOR | YouTube | TOI

- Developed **algorithms** to optimize ventilator functionality and ensure seamless wireless connectivity.
- Integrated **wireless** control features, enabling remote operation through a dedicated app, ensuring the safety of medical professionals by minimizing exposure to potential infections.
- Used **Arduino** to drive the hardware. Programmed Arduino using **C++**.
- Provisionally **filed a patent** for a **low-cost portable ventilator** for emergency use which can be used in situations like pandemics (e.g. **Covid-19**).

AWARDS & ACHIEVEMENTS

- Awarded as Best Project with prize money of **₹ 20,000** in the 5th National Level **IEEE Banglore Section** Project Competition-2021. | **Certificate**
- Secured **1st** position in presentation competition organized by **IEEE BBDITM** Signal Processing Society on Topic-'Fighting on COVID-19' | **Certificate**
- Got first place in the hackathon organized in Techcracy'21 at Central institute of technology, kokrajhar. | **Certificate**
- Awarded with the **Prof. Aparna Kumar Padmapati Annual Scholarship** of **₹ 30,000** for the best Innovative Engineering Idea' by AEC CLASS 88 FOUNDATION for our project 'IOT-based Low-Cost Portable Ventilator'.