

MOHAMMED RAQUIB

Associate Python Developer

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PROFESSIONAL SUMMARY

Versatile Associate Python Developer with 3+ years of experience specializing in Python backend development, REST API design with FastAPI, and MySQL database optimization. Proven expertise in containerization with Docker, cloud deployment on AWS EC2, and cross-platform integration. Strong track record of delivering end-to-end solutions from development to production deployment, improving operational efficiency by up to 40%. Experience spans backend APIs, database design, system integration, and freelance project delivery.

PROFESSIONAL EXPERIENCE

Associate Software Developer

Ausweg Info Controls Pvt Ltd

May 2023 - Present

- Architected and developed robust REST APIs using FastAPI framework, serving 10,000+ daily requests with 99.9% uptime
- Led containerization initiative using Docker, successfully dockerizing all company projects and deploying on AWS EC2 and on-premises infrastructure
- Mentored junior team members and conducted comprehensive code reviews, reducing bugs by 40% and improving code maintainability
- Designed and optimized MySQL database schemas and queries, achieving 50% performance improvement in data retrieval

Managed end-to-end deployment pipeline from development to production, ensuring scalable and reliable system operations

Junior Software Developer

Ausweg Info Controls Pvt Ltd

October 2021 - May 2023

- Developed scalable Python backend applications with MySQL database integration, handling concurrent user loads of 500+
- Implemented advanced socket programming solutions for real-time data extraction and processing from industrial equipment
- Built RESTful APIs for client applications, improving system response times by 40% through optimized database queries
- Successfully migrated legacy Python 2.7 codebase to Python 3.9, resulting in 15% performance improvement and enhanced security

FREELANCE & INDEPENDENT PROJECTS

Stock Control Management Application

Python | FastAPI | MySQL | Angular.js | Docker | Hostinger VPS

- Developed comprehensive stock management system with real-time inventory tracking and automated reporting features
- Built scalable REST APIs using FastAPI with MySQL backend, supporting concurrent inventory operations
- Implemented responsive frontend using Angular.js with real-time data synchronization
- Containerized application using Docker and deployed on Hostinger VPS with automated backup and monitoring
- Delivered complete end-to-end solution including database design, API development, frontend integration, and deployment

Hikvision Camera Employee Sync Integration

Python | .NET | Digest Authentication | API Integration

- Developed automated employee data synchronization system between HR database and Hikvision camera systems
- Implemented secure digest authentication protocol for seamless API communication with camera infrastructure
- Built Python backend service with .NET application integration for real-time employee data management
- Achieved 100% automated synchronization, eliminating manual data entry and reducing errors by 95%

RFID Reader Management System

.NET | RFID SDK Integration | License Validation | Database Management

- Developed comprehensive .NET application for RFID tag scanning and data management with enterprise-grade security
- Integrated third-party RFID device SDK for seamless hardware communication and data processing
- Implemented robust license validation system and secure user authentication mechanisms
- Built real-time data posting and management features with efficient database operations and reporting

KEY CORPORATE PROJECTS

Real-time Equipment OEE Monitoring System

Python | Socket Programming | SQL | PLC Integration

- Deployed Python socket programming to extract real-time data from PLCs for Equipment Overall Equipment Effectiveness monitoring
- Achieved 20% reduction in equipment downtime and 15% increase in productivity through data-driven insights
- Improved resource utilization by 10% through real-time performance metrics and actionable analytics

Car Parking System Automation

Python | FastAPI | SQL | Socket Programming | Threading

- Orchestrated communication protocols between system and PLCs for efficient car parking operations
- Developed RESTful APIs for seamless web app integration, increasing user satisfaction by 30%
- Optimized database architecture achieving 40% improvement in query performance and 25% reduction in response time

SFTP File Transfer Software

Python | FastAPI | AsyncIO | SFTP Protocol

- Developed robust internal software for secure file transfer with real-time synchronization capabilities
- Implemented asynchronous architecture using AsyncIO for handling multiple simultaneous file transfers
- Improved file transfer efficiency by 40% with user-friendly interface and real-time progress tracking

Real-time Energy Monitoring System

Python | Socket Programming | MySQL | TCP/IP

- Executed TCP/IP socket programming for real-time data acquisition from energy meters with MySQL data persistence
- Achieved 25% reduction in energy consumption through timely identification of inefficiencies via data analytics
- Contributed to significant cost savings and sustainability efforts through automated data-driven energy optimization

TECHNICAL SKILLS

- Python
- FastAPI
- MySQL
- Docker
- RESTful APIs
- AWS EC2
- SQL
- Database Design
- API Integration
- Git & GitHub

EDUCATION

Bachelor of Science - Information Technology

Hajee Karutha Rowther Howdia College, Uthamapalayam

CERTIFICATIONS & ADDITIONAL INFORMATION

Certifications

- QTree Certified Web Developer
- AI Tools Workshop Certification (Be10x)

Technical Engagement

- Active contributor on HackerRank and LeetCode
- Continuous learning in emerging technologies
- Strong IT fundamentals with technology enthusiasm