

# MOHAMMED RAQUIB R

## SENIOR PYTHON DEVELOPER

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## SUMMARY

Senior Python Developer with over 3 years of experience in backend development, RESTful API design using FastAPI, and MySQL optimization. Experience with Docker, AWS EC2 deployments, and real-time systems using socket and asynchronous programming. Developed and supported backend systems in industrial automation and enterprise applications with an emphasis on performance and reliability.

## SKILLS

**LANGUAGES:** Python, SQL, HTML, CSS, JavaScript

**SOFTWARE AND TOOLS:** Apache JMeter, WebSocket Test Client, Keycloak, Postman, Redis

**DEVOPS / CLOUD:** Docker, AWS EC2, S3, Git, Kubernetes

**CONCEPTS:** REST APIs, Async IO, Socket Programming, Threading, System Integration, SOLID Principles, API Best Practices

**SOFT SKILLS:** Problem Solving, Self-learning, Communication, Leadership, Teamwork

## EXPERIENCE

### AUSWEG INFO CONTROLS PVT LTD

Senior Python Developer

### COIMBATORE, TAMIL NADU

May 2023 – Present

- Engineered high-performance REST APIs using FastAPI, efficiently handling 10,000+ daily requests with 99.9% uptime.
- Spearheaded Docker containerization across all company projects, streamlining deployments to AWS EC2 and on-premise environments.
- Provided mentorship and code review leadership, resulting in a 40% reduction in production bugs and improved long-term code maintainability.
- Optimized MySQL schemas and complex queries, leading to a 50% increase in data retrieval efficiency across applications.
- Configured and maintained CI/CD pipelines using tools like GitHub Actions and Docker, reducing deployment errors by 30% and ensuring uninterrupted production releases.

### AUSWEG INFO CONTROLS PVT LTD

Junior Software Developer

### COIMBATORE, TAMIL NADU

Oct 2021 – May 2023

- Designed scalable backend systems in Python, supporting 500+ concurrent users with consistent low-latency performance.
- Implemented socket-based data ingestion from industrial equipment (PLC systems), supporting real-time monitoring and reducing manual reporting delays by 80%.
- Built and improved RESTful APIs, enhancing system responsiveness by 40% through refined query logic and load handling.
- Led successful migration of 50K+ lines of legacy Python 2.7 code to Python 3.9, increasing performance by 15% and aligning with modern security standards.

## EDUCATION

Bachelor of Science in Information Technology

*Hajee Karutha Rowther Howdia College, Tamil Nadu*

Nov 2020 – Jun 2023

Higher Secondary Education

*Gayathri Matric Higher Secondary School*

Jun 2019 – Mar 2020

Percentage: 63.08

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## FREELANCE AND INDEPENDENT PROJECTS

### STOCK CONTROL MANAGEMENT APPLICATION

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

- Developed a stock management system with inventory tracking and reporting using Angular.
- Generated REST APIs with FastAPI and MySQL handling 500+ daily transactions.
- Delivered an end-to-end solution from database design to Docker-based deployment on Hostinger.

### HIKVISION CAMERA EMPLOYEE SYNC INTEGRATION

Python | .NET | Digest Authentication | API Integration

- Established a streamlined Python-based employee data synchronization system between the HR database and Hikvision camera systems, integrated with a .NET application for real-time data management.
- Implemented secure digest authentication for seamless API communication, achieving fully hands-free sync and reducing manual entry errors by 95%.

### RFID READER MANAGEMENT SYSTEM

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

- Established a comprehensive .NET application for RFID tag scanning and data management with enterprise-grade security, integrating third-party RFID SDKs for seamless hardware communication.
- Executed robust license key validation, secure user authentication, and real-time data posting with efficient database operations and reporting.

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## KEY CORPORATE PROJECTS

### REAL-TIME EQUIPMENT OEE MONITORING SYSTEM

Python | Socket Programming | SQL | PLC Integration

- Used socket programming in Python to collect real-time PLC data for OEE monitoring.
- Achieved a 20% reduction in equipment downtime, a 15% increase in productivity, and a 10% improvement in resource utilization through data-driven insights.

### CAR PARKING SYSTEM AUTOMATION

Python | FastAPI | Socket Programming | Threading

- Built communication between PLCs and systems for parking automation and created REST APIs for integration with a web app.
- Enhanced database architecture, resulting in a 40% improvement in query performance and a 25% reduction in response time.

### SFTP FILE TRANSFER SOFTWARE

Python | FastAPI | AsyncIO | SFTP Protocol

- Built internal software for file transfer using AsyncIO to support multiple transfers at once.
- Enhanced file transfer speed by 40% with a user-friendly interface and real-time progress tracking.

### REAL-TIME ENERGY MONITORING SYSTEM

Python | Socket Programming | MySQL | TCP/IP

- Collected energy meter data in real-time using TCP/IP sockets and stored it in MySQL.
- Achieved a 25% reduction in energy consumption and contributed to significant cost savings and sustainability through timely identification of inefficiencies.

## **CERTIFICATES**

QTree Certified Web Developer  
AI Tools Workshop Certification (Be10x)

**Mar 2023**

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