SOURAV KUMAR

Software Developer | ASP.NET Core | Full Stack Development

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PROFESSIONAL SUMMARY

Results-driven Software Developer with 4+ years of experience in designing, developing, testing, and maintaining software applications. Proficient in ASP.NET Core, C#, MVC, SQL Server, and full-stack development. Strong expertise in Software Development Life Cycle (SDLC), CI/CD pipelines, Azure cloud deployment, and quality assurance. Proven ability to analyze client requirements, perform root cause analysis, and deliver error-free solutions. Skilled in collaborating with cross-functional teams, preparing technical documentation, and ensuring 100% on-time delivery with high customer satisfaction.

TECHNICAL SKILLS

Programming:	C#, ASP.NET Core, VB.NET, Python, JavaScript, PHP, C++
Web Technologies:	ASP.NET MVC, Angular, HTML5, CSS3, REST APIs, Web Services
Database:	SQL Server, Oracle, MySQL, DB2, Stored Procedures, Query Optimization
Tools & DevOps:	Visual Studio, Git, GitHub, Jenkins, Azure DevOps, CI/CD Pipelines
Cloud Platform:	Microsoft Azure (Deployment, Configuration, Monitoring)
Methodologies:	Agile, SDLC, Unit Testing, Integration Testing, Code Review
Industrial:	PLC/SCADA, Modbus TCP/RTU, IEC 61850, IoT, SAP-PM

PROFESSIONAL EXPERIENCE

Rugged Monitoring Engineering Services   Oct 2024 – Present
Software Application Engineer

- Design and develop software solutions by studying information needs, analyzing system flow, data usage, and work processes following SDLC methodology.
- Develop and maintain automation tools using C# and Python, achieving 40% reduction in deployment time.
- Implement CI/CD pipelines using Jenkins and GitHub ensuring 100% error-free deployment and continuous monitoring.
- Deploy and configure cloud-based solutions on Microsoft Azure platform with network parameter optimization.
- Perform comprehensive software validation through systematic test case design and execution.
- Conduct root cause analysis for system issues and implement long-term corrective solutions.
- Execute functional testing of industrial communication protocols (Modbus TCP/RTU, IEC 61850).
- Prepare technical documentation including flowcharts, system diagrams, and code comments.
- Collaborate with cross-functional teams to gather requirements and deliver client-focused solutions.

Amalgam Steel Pvt. Ltd., Jamshedpur   Dec 2022 – Sep 2024
Electrical and Automation Engineer

- Led shift operations and supervised electrical maintenance activities in Pellet Plant ensuring operational efficiency.
- Developed automation scripts and software tools for system monitoring and performance tracking.
- Performed Root Cause Analysis (RCA) for electrical and instrumentation breakdowns; implemented corrective actions.
- Utilized SAP-PM module for planning, tracking, and documentation of maintenance tasks.
- Created automated reporting systems and dashboards for real-time performance monitoring.
- Scheduled and executed preventive and predictive maintenance to minimize system downtime.
- Ensured 100% timely MIS and report generation with complete accuracy.

JSW ISPL, Raigarh   Feb 2022 – Dec 2022
Junior Engineer - Central Utility

- Collaborated with automation and IT teams for real-time monitoring using SCADA systems and IoT dashboards.
- Developed Excel-based dashboards and integrated with CMMS tools for equipment performance tracking.
- Monitored energy consumption patterns and optimized load distribution improving operational efficiency.

- Participated in digital transformation initiatives including equipment tagging and KPI reporting systems.
- Maintained comprehensive documentation and reports for software implementations.

JSW ISPL, Raigarh   Feb 2021 – Feb 2022

Diploma Engineer Trainee (DET)

- Gained hands-on experience with PLC-based control systems, HMI operations, and fault diagnostic tools.
- Supported digital maintenance records and asset tracking through internal software tools.
- Assisted in software validation, testing procedures, and system troubleshooting.
- Developed understanding of electrical schematics, control diagrams, and digital instrumentation interfaces.

KEY PROJECTS

1. Remote Monitoring Solution Deployment Platform   *C#, ASP.NET Core, Azure, SQL Server*

- Designed and developed a web-based platform for deploying and managing remote monitoring solutions across multiple client environments.
- Implemented RESTful APIs using ASP.NET Core for real-time data communication between field devices and central server.
- Integrated Azure cloud services for scalable deployment, storage, and monitoring capabilities.
- Developed automated validation scripts reducing deployment errors by 95% and deployment time by 40%.
- Created comprehensive dashboard for system health monitoring and alert management.

2. Industrial Protocol Testing Automation Framework   *Python, C#, Modbus, IEC 61850*

- Built an automated testing framework for validating industrial communication protocols (Modbus TCP/RTU, IEC 61850).
- Developed test case management system with systematic test scenario design and execution tracking.
- Implemented automated report generation with detailed test results and error analysis.
- Reduced manual testing effort by 60% while improving test coverage and accuracy.

3. Plant Maintenance Management System   *ASP.NET MVC, SQL Server, SAP Integration*

- Developed web application for tracking and managing preventive/predictive maintenance schedules.
- Integrated with SAP-PM module for seamless data synchronization and reporting.
- Implemented automated notification system for maintenance alerts and escalations.
- Created MIS reporting module generating 100% accurate and timely reports for management review.

4. Real-Time Equipment Monitoring Dashboard   *Angular, C#, SQL Server, SCADA Integration*

- Designed and developed real-time monitoring dashboard for utility equipment performance tracking.
- Integrated with SCADA systems and IoT sensors for live data acquisition and visualization.
- Implemented KPI tracking, trend analysis, and energy consumption optimization features.
- Reduced equipment downtime by 25% through proactive monitoring and alert systems.

5. CI/CD Pipeline Implementation for Software Deployment   *Jenkins, GitHub, Azure DevOps, PowerShell*

- Designed and implemented end-to-end CI/CD pipeline for automated build, test, and deployment processes.
- Configured Jenkins jobs for continuous integration with GitHub repository triggers.
- Developed automated deployment scripts for Azure cloud environment configuration.
- Achieved 100% error-free deployment with automated rollback capabilities.

EDUCATION

Diploma in Electrical Engineering
(Add Institution Name and Year of Completion)

CERTIFICATIONS

• Microsoft Azure Fundamentals - Cloud Services and Deployment

• Python for Engineers - Programming and Automation

• Industrial Automation with PLC & SCADA - System Integration

• IoT Certification - Connected Systems and Applications

ACHIEVEMENTS & AWARDS

• Received INSTA Award for outstanding performance and project delivery

• Awarded Performance Badges for consistent quality and timely delivery

• Recognized with Client Appreciation for excellent customer service and communication

KEY COMPETENCIES

Software Development Life Cycle (SDLC) • Requirements Analysis • System Design • Code Development • Unit Testing • Integration Testing • Quality Assurance • Root Cause Analysis • Technical Documentation • CI/CD Implementation • Azure Cloud Deployment • Client Communication • Agile Methodologies • MIS Reporting • Cross-functional Collaboration • Problem Solving