

Ramana Koduri

Software Developer

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Results-oriented Software Developer with over 2 years of experience in full-stack development, data analysis, and machine learning. Skilled in Python, SQL, and BI platforms, with a proven track record of delivering innovative solutions in diverse domains. Strong communicator and team player with a passion for leveraging technology to drive business growth and solve complex challenges.

PROFESSIONAL EXPERIENCE

COGNITIVEBOTICS

HYDERABAD, INDIA
2022

Full Stack Developer

- Collaborated with psychologists to develop new AI games for autistic children, focusing on therapeutic and educational outcomes.
- Integrated complex algorithms into webpages using React, enhancing functionality and user experience.
- Developed and maintained applications using the React framework, ensuring high performance and scalability.
- Utilized Node.js concepts to build and enhance backend services, improving application efficiency.
- Dockerized applications to streamline deployment processes, ensuring consistent environments across development, testing, and production.
- Maintained and updated existing projects, implementing new features, and resolving issues to enhance system stability and performance.
- Applied C++ and C programming skills to develop robust software solutions, leveraging object-oriented programming concepts.
- Worked with POSIX-compliant operating systems like Linux and QNX, ensuring compatibility and reliability of software applications.

WIPRO

HYDERABAD, INDIA
2021-2022

Project Engineer

- OSI PI System Management: Expert in creation and modification of PI points, manual data uploads, server backups, tuning parameters, and error analysis using PI SMT.
- PI Interfaces Configuration: Skilled in designing and configuring PI OPC DA/HDA interfaces and PI to PI interfaces.
- Data Visualization: Proficient in creating and editing displays in PI ProcessBook and PI Vision, and publishing for real-time monitoring.
- Report Generation: Experienced in generating reports, validating data, and configuring PI points using PI Builder, PI Configurator, and SMT.
- System Installation & Configuration: Successfully installed and configured PI Data Archive and AF servers, along with PI Interface Nodes (e.g., PI OPC DA/HDA, PI RDBMS, PI UFL, PI PerfMonitor, PI Ping).
- High Availability (HA) Setup: Configured PI High Availability for PI servers and interfaces ensuring continuous data flow and system reliability.
- Asset Framework Development: Created PI AF to capture asset hierarchies, developed performance monitoring equations, and built business use cases using AF Analytics and Event Frames.
- Client Tools Automation: Automated reports with PI DataLink and created real-time monitoring displays in PI Vision for enhanced data insights.
- Troubleshooting Expertise: Resolved connectivity issues from control systems to interfaces and PI System, and addressed PI server, interface node, and tag health issues.
- Service Request Handling: Managed service requests for PI point configuration, performance evaluations, PI analysis, event frames, and PI client issues, ensuring optimal system performance.
- Health Checks and Maintenance: Conducted regular health checks of PI servers, managed archive backups, and resolved related challenges to ensure system integrity and reliability.
- Event Frame Analysis: Performed detailed event frame analysis using PI AF, creating and modifying element templates to meet specific business needs.
- Performance Monitoring: Developed and implemented performance monitoring equations using AF Analytics, optimizing operational efficiency.
- PI SDK Management: Configured and managed PI SDK, analyzed SDK logs, and ensured smooth operation of collective configurations.

Software Developer - Fellowship

- Kiosk System Development: Engineered a digital solution for an eye hospital to streamline patient journeys using a robust Kiosk System, enhancing the overall patient experience.
- Payment Gateway Integration: Successfully integrated the Razorpay payment gateway into a standalone application, facilitating secure and seamless transactions for hospital services.
- API Development for Digital IDs: Created a comprehensive API that generated patient 'Digital IDs,' seamlessly integrating with a massive EMR system housing over 1 million user records.
- Dynamic QR Code Generation: Developed an API that generates dynamic QR codes and links the QR code images to patient Medical Record Numbers, enabling efficient access to patient information.
- Messaging Service API: Designed an API for generating message services that included URLs for accessing patient digital IDs, ensuring effective communication with patients.
- Digital Smart Card Implementation: Developed and deployed a digital smart card solution used for follow-ups, consultations, and check-ins, improving patient management and reducing wait times.
- System Architecture Design: Contributed to the architectural design of the Kiosk System, ensuring scalability, security, and reliability in handling patient data and interactions.
- Database Management: Managed and optimized the integration of patient data with the hospital's EMR system, ensuring data integrity and efficient retrieval.
- User Authentication: Implemented secure user authentication protocols for the digital solution, safeguarding patient data and ensuring compliance with healthcare regulations.
- Performance Optimization: Enhanced the performance and responsiveness of the Kiosk System and associated APIs, resulting in faster processing times and improved user satisfaction.

TECHNICAL SKILLS

- Programming Languages: Python, Java, C, SQL, C++, JavaScript
- Frameworks & Libraries: React, Angular, Node.js, Spring Boot, TensorFlow, scikit-learn
- Tools & Technologies: OSI PI Vision, Docker, MongoDB, Git/GitHub, PowerBI
- Operating Systems: Linux, QNX
- Cloud Platforms: AWS, Azure, Heroku
- Large Language Model Libraries: LangChain

LANGUAGES

- English – Full Professional Proficiency
- French – Limited Professional Proficiency
- Telugu – Native

EDUCATION

CONCORDIA UNIVERSITY
Master of Applied Computer Science in Computer Science

MONTREAL, CANADA
2022-2024

GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY
Bachelor of Technology in Computer Science

HYDERABAD, INDIA
2016-2020

ADDITIONAL INFORMATION

- Freelancer Experience: Successfully managed and deployed applications for various clients, ensuring timely delivery and optimal performance.
- Event Hosting: Anchored multiple technical and formal events, demonstrating strong public speaking and organizational skills.
- Student Coordinator: Organized and coordinated the technical fest "Bhaswara 2k19," overseeing event planning, logistics, and participant engagement.