



Somdutta Roy

Application Developer

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Jharkhand, India

Aim to utilize a strong background in software development and telecommunication engineering to contribute to advancements in technology and operational improvements within the industry.

Core Competencies

Telecommunication Protocols & Standards

Software Development Lifecycle (SDLC)

Mobile & Wireless Technologies

Application Development

Performance Optimization

UI/UX Design

Database & Persistence

Networking

Database Management & Design

Software Architecture

Testing & Quality Assurance

Technical Skills

- Java
- Android
- Kotlin
- React JS
- BLE
- Bluetooth
- IoT
- JavaScript
- Matlab
- MySQL
- HTML and XML
- C and C++
- OOP

Soft Skills

Analytical

Collaboration

Communication

Decisive

Critical-Thinker

Profile Summary

- A result-oriented professional with nearly 4 years of diverse experience in software development, specializing in telecommunication engineering and IoT applications, with a strong foundation in both theoretical knowledge and practical implementation in the industry.
- Acted as an Application Developer at New Generation Sensors srl, where responsibilities include driving the development of innovative applications tailored for logistics optimization.
- Played a pivotal role in creating advanced applications designed to enhance logistics operations, ensuring efficient tracking and monitoring of goods throughout the supply chain.
- Realized key accomplishments in the current position, including the successful development of an Android application that revolutionized logistics processes from initial concept to final implementation.
- Successfully coordinated project schedules while fostering collaboration among diverse teams to ensure alignment with strategic objectives and project goals.
- Demonstrate comprehensive expertise in wireless communication technologies, particularly in the integration of Bluetooth and Wi-Fi for seamless IoT applications.
- Recently acknowledged for the successful integration of advanced features in logistics applications, which mainly improved user engagement and satisfaction metrics.

Career Timeline

May'16 to Jan'18

Infosys Limited

Apr'21 to Dec'21

Ditec Automations

Nov'21 to Dec'23

New Generation
Sensors SRL

Work Experience

New Generation Sensors SRL, Italy: Nov'21 to Dec'23
Application Developer

Key Result Areas

- Spearheaded the development of innovative applications aimed at enhancing logistics operations, focusing on the integration of IoT technologies to create smart tracking and monitoring systems for goods.
- Collaborated on the integration of Bluetooth 2.0 and BLE technologies with Android applications, developing Bluetooth GATT clients to facilitate this integration.
- Designed and implemented an Android application from inception, facilitating the consolidation and deconsolidation of Bluetooth and barcode-enabled logistics units, thereby improving supply chain visibility.
- Integrated third-party Bluetooth-enabled scales into application, enabling real-time weight measurement of logistics units, which mainly enhanced operational accuracy.
- Collaborated with cross-functional teams to draft comprehensive project documentation, ensuring alignment with project goals and compliance.
- Developed web applications utilizing React.js for tracking and monitoring logistics units, enhancing user interaction and data accessibility.
- Conducted rigorous testing and debugging of applications to identify and resolve issues, ensuring optimal performance and user satisfaction.

Certification

- Infosys Entry Level Training from May 2016 to October 2016.

Education

2020: Master's in Telecommunication Engineering from Politecnico di Milano, Milan

2016: Electronics & Telecommunication from Satyabhama University, India

Personal Details

Date of Birth: 13th May 1994

Languages: English, Hindi &

Bengali

- Engaged in continuous learning and adaptation of emerging technologies to enhance application features and functionalities, keeping pace within industry advancements.
- Provided technical support and training to end-users, ensuring smooth adoption and utilization of the developed applications.

Ditec Automations, Italy: Apr'21 to Dec'21 **R&D Engineer**

Key Result Areas

- Engaged in the design and development of applications for gate installations, focusing on user conduct and operational efficiency.
- Explored and planned IoT use cases for gate automation, leveraging wireless technologies such as Bluetooth and Wi-Fi to enhance system capabilities.
- Collaborated with engineering teams to identify and implement innovative solutions for improving gate automation processes.
- Conducted market research to assess the feasibility of proposed IoT applications, ensuring alignment within industry trends and customer needs.
- Assisted in the development of technical specifications and project documentation, facilitating clear communication among team members.
- Participated in brainstorming sessions to generate creative ideas for enhancing product offerings and improving user experience.
- Provided technical insights and recommendations to management regarding potential improvements in existing systems and processes.

Infosys Limited, India: May'16 to Jan'18 **System Engineer**

Key Result Areas

- Acted as a Core Java Developer, liable for the design and development of full-stack applications across multiple tiers.
- Executed major enhancements to existing applications, ensuring improved functionality and user experience.
- Developed robust back-end systems using Java and Python, facilitating seamless data processing and application performance.
- Created dynamic user interfaces utilizing AngularJS, enhancing user interaction and engagement with applications.
- Collaborated with cross-functional teams to gather requirements and translate them into technical specifications for application development.
- Conducted code reviews and provided constructive feedback to team members, promoting best practices in software development.

Projects

- **Intra-technology Interpolation versus machine learning based Inter-technology knowledge transfer for Localization of Wi-Fi devices:** Investigated various Wi-Fi technologies coexisting in the same area to enhance localization performance by sharing assistance data for RSS map calibration.
- **Worked on Visual Light communications with Signify:** Developed enhancements for the existing VLC indoor communication system using Java and Android.
- **Maximizing the capacity of MIMO for Nokia:** Analyzed the capacity of an N-sized LOS MIMO system based on hopping distance, carrier frequency, and antenna spacing, determining optimal spacing to maximize capacity in comparison to SISO systems.
- **Private Mobile Radio Network working at VHF frequencies:** Designed a Private Mobile Radio Network operating at VHF frequencies (30MHz to 300MHz), facilitating communication between portable and vehicular terminals through interconnected repeaters and base stations.
- **Tracklog:** Worked on a European union funded project as an application developer to create apps for smart tracking and monitoring of goods so as to secure and optimize supply chain and logistics management.