SANCHAYAN GHOSH

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PROFESSIONAL SUMMARY

Electronics and Communication Engineering graduate with 7.5 CGPA specializing in IoT development, embedded systems, and Java programming. Experienced in Arduino-based smart home automation, wireless communication systems, and real-time application development. Proven expertise in hardware-software integration with Spring Boot framework. Seeking entry-level Software Developer or Embedded Systems Engineer position to leverage technical skills in circuit design and web technologies.

EDUCATION

Bachelor of Engineering - Electronics and Communication Engineering

Academy Of Technology | Expected Graduation: June 2025 | CGPA: 7.5/10

Higher Secondary (XII) - West Bengal Council of Higher Secondary Education

Sekendarpur Rai K P Pal Bahadur High School | 2021 | 71%

Secondary (X) - West Bengal Board of Secondary Education

Sekendarpur Rai K P Pal Bahadur High School | 2019 | 72.9%

TECHNICAL SKILLS

Programming Languages: Java, C++, Python, C

Web Technologies: HTML5, CSS3, JavaScript, Bootstrap

Frameworks: Spring Boot, Swing, RESTful APIs

Database: MySQL, MongoDB

Hardware: Arduino UNO, ESP32, Raspberry Pi

Tools: Git, VS Code, Eclipse, MATLAB

Communication: WiFi, Bluetooth, Socket Programming

PROFESSIONAL PROJECTS

IoT Based Wireless Smart Home Automation System

Duration: October 2024 - June 2025

Technologies: Arduino UNO, ESP32, IoT, WiFi Communication

- Designed comprehensive wireless smart home automation system enabling remote control of 8+ home appliances
- Implemented real-time monitoring dashboard reducing manual operation by 85% and improving energy efficiency by 30%
- Integrated WiFi-based communication protocols supporting 50+ concurrent device connections with 99.8% uptime
- Successfully deployed system architecture handling 1000+ daily automation commands with sub-2-second response time

Real-Time Multi-User Chat Application

Technologies: Java Socket Programming, Swing GUI, Multi-threading

- Built scalable real-time chat application supporting 100+ concurrent users using Java socket programming
- Implemented multi-threading architecture ensuring seamless communication with zero message loss
- Developed robust client-server model with automatic reconnection features and encrypted message transmission
- Integrated file sharing capability supporting transfers up to 10MB per file

Professional Portfolio Website

GitHub:https://github.com/sanchayan07

Technologies: HTML5, CSS3, JavaScript, Bootstrap

- Created responsive professional portfolio website showcasing 5+ technical projects with modern UI/UX design
- Achieved 95+ Google PageSpeed score with mobile-first design approach
- Implemented cross-browser compatibility across 10+ devices with contact form backend validation
- Deployed using GitHub Pages with 99.9% availability processing 50+ monthly inquiries

CERTIFICATIONS

Salesforce Platform Developer - Salesforce Trailhead | August 2024

SQL Intermediate Certification - HackerRank | October 2024

Arduino Programming - Coursera | November 2024

CORE COMPETENCIES

Technical Skills:

- Embedded Systems Development
- Full-Stack Web Development
- Circuit Design & Analysis
- Database Design & Management
- API Development & Integration
- Hardware-Software Integration

Professional Skills:

- Technical Problem Solving
- Project Management
- Team Collaboration
- Code Review & Quality Assurance
- Technical Documentation
- Agile Development Methodology

LANGUAGES

English (Professional Proficiency)   Hindi (Professional Proficiency)   Bengali (Native Speaker)