SOUVIK RANA

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EDUCATION

Bachelor of Technology in **Electronics and Communication Engineering**	**October 2021 – June 2025**
Academy of Technology, Hooghly, West Bengal	**CGPA: 8.23 / 10.00**
Higher Secondary (WBCHSE)	**January 2020 – March 2021**
Springdale High School, Kalyani, West Bengal	**Percentage: 85%**
Secondary (WBBSE)	**January 2018 - February 2019**
Springdale High School, Kalyani, West Bengal	**Percentage: 81.29%**

SKILLS

Programming and Web development: C, Java, Python, Git, HTML, CSS, JavaScript, NextJS, ReactJS, MongoDB, Appwrite.
Industry Software: CST Microwave Studio, MATLAB, OCTAVE, FreeCAD, EAGLE, MS Office.
Soft Skills: Leadership, Teamwork, Growth Oriented, Performance Focused.

PROJECTS

1. **WellBee: Healthcare Patient Management Application** ⬈
   - ❖ Developed a Next.js application that streamlined appointment booking and management, reducing processing time by 40% and decreasing missed appointments by 25%.
   - ❖ Added real-time notifications and data dashboards, boosting user engagement and healthcare provider decision-making.
2. **Souvik Rana's Portfolio Website** ⬈
   - ❖ Designed and launched a personal portfolio website, increasing professional inquiries by 50% through effective showcasing of skills, projects, and contact details.
   - ❖ Implemented responsive design and SEO techniques, ensuring compatibility across devices and improving search engine rankings.
3. **Touch-Based Intrusion Detection System using Arduino**
   - ❖ Engineered a system with a capacitive touch sensor and Arduino UNO, achieving 95% accuracy in detecting intrusion events and displaying alerts on a 16×2 LCD.
   - ❖ Designed a low-power circuit that improved energy efficiency by 40%, enabling the system to operate continuously in secure environments without compromising performance or reliability for critical applications.
4. **Broadband Wearable Antenna using IoT and Medical Applications** (Ongoing)
   - ❖ Developing a broadband wearable antenna covering frequencies from (3.5 to 18 GHz), projected to improve health monitoring accuracy by 20%.
5. **YOOM: Full Stack Video Conferencing App with Next.js** (Ongoing)
   - ❖ Building a scalable, real-time video conferencing platform with Next.js to enhance communication efficiency by 35% for users.

WORK EXPERIENCE

Salesforce Developer Intern -- SmartBridge & Persistent ⬈	**July 2024 – August 2024**

My Trailhead Link: salesforce.com/trailblazer/souvikrana ⬈
- ❖ Spearheaded Salesforce application customization, enhancing user experience and streamlining CRM workflows, reducing data entry time for the sales team by 30%.
- ❖ Implemented workflows, data integration, and reports, increasing operational efficiency by 20%.

CERTIFICATIONS & POSITION OF RESPONSIBILITY

❖ **Professional Certificate on Cybersecurity – Google** ⬈	**November 2024**
❖ **Machine Learning Specialization – Stanford University & DeepLearning.AI** ⬈	**November 2024**
❖ **Full Stack Java Dev: JAVA + JSP + SPRING + BOOT + JS + REACT – Udemy** ⬈	**November 2024**
❖ **TalentNext course on Java Full Stack – Wipro** ⬈	**October 2024**
❖ **Geodata Processing using Python -- ISRO** ⬈	**January 2024**
❖ **Organizer, Techfest & Humatronics -- Academy of Technology** ⬈	**January 2024**
❖ **Hands-on Introduction to Internet of Things with Machine Learning -- IIT Kharagpur** ⬈	**December 2023**