Bishal Das

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EDUCATION

- **National Institute of Technology Silchar** — *2024*
  B.Tech in Electronics and Communication Engineering — CGPA/Percentage: 7.04

- **Shree Ram Academy** — *2021*
  Central Board of Secondary Education(10+2) — CGPA/Percentage: 78.2

- **Angel's English School,Sualkuchi** — *2019*
  Board of Secondary Education, Assam(10th) — CGPA/Percentage: 81.33

INTERNSHIP EXPERIENCE

- **OIL INDIA Limited** — *20May-3July,2024*
  Summer Intern — Guwahati
  - Telecommunication and Instrumentation Intern at OIL INDIA Limited
  - During the internship, I gained a comprehensive understanding of essential operations in the oil industry, including remote monitoring, advanced communication systems, and the integration of programmable logic controllers (PLC) and remote terminal units RTU.Key areas of learning included the role of pressure, temperature, and flow measurement in industrial processes, the functionality of pressure transmitters, flow meters, and level sensors, and the implementation of SCADA systems to centralize data and facilitate real-time decision making.

PERSONAL PROJECTS

- **Development of Photonic Crystal Fiber-Based Sensors**
  Using COMSOL Multiphysics:

  - Developed and optimized a Photonic Crystal Fiber (PCF)-based bio-sensor using COMSOL Multiphysics. Conducted numerical simulations to evaluate and enhance key optical parameters, including nonlinearity, confinement loss, effective mode area, and numerical aperture. Designed and analyzed innovative PCF geometries(basically a five ring decagonal structure) and material configurations(selecting Silica, BK7 and ZBLAN for comparison) to improve sensor sensitivity and performance for medical imaging and sensing applications.

- **Portfolio Project**
  Responsive Portfolio Website(For adjustable screen size)

  - Tools & technologies used: HTML,Tailwinnd CSS,JavaScript
  - The Responsive Portfolio Website project is a comprehensive showcase of my web development skills using HTML, Tailwind CSS, and JavaScript. Designed to be fully responsive, the portfolio is optimized for both laptop and mobile screens, ensuring a seamless and engaging user experience across all devices.I ensured that the site is both visually appealing and highly functional.Key Feature: Responsive Design,Project Showcase,Interactive Elements,Accessibility and Performance

- **WhatsApp UI clone**
  This project involves creating a user interface (UI) clone of the popular messaging application WhatsApp

  - Tools used: Figma
  - The goal of the project is to replicate the visual design and layout of WhatsApp as closely as possible, focusing on key elements such as chat screen,chat interface,status screen,call screen

TECHNICAL SKILLS AND INTERESTS

Languages:C,C++,SQL,HTML, CSS, JavaScript
Core Concept:Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP)
Developer Tool:Git,MySQL,COMSOL Multiphysics
Design Tools:Adobe Photoshop,Adobe illustrator,Canva,Digital Art
Soft Skills:Communication,Leadership skills, Negotiation, Problem Solving, Time Management,Team work,Adaptablity

POSITIONS OF RESPONSIBILITY

- **Event Management** Incandescence(College fest)

- **Hospitality** Posua(College fest)

ACHIEVEMENTS

- Participated in AIINIT power sports meet — *16-19 Feb,2023 and 03-05 Nov,2023*