Piyush Raj

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Education

Indian Institute of Technology (ISM), Dhanbad Dhanbad, Jharkhand
Bachelor of Technology in Electrical Engineering, CGPA-7.14 *Dec 2020 – May 2024*

R.P.S Public School (CBSE) Patna, Bihar
*12th -**90.4%*** *April 2019 - April 2020*

Experience

Samsung Research Institute Bangalore Bengaluru, Karnataka
Software Engineering Intern -Certificate *June 2023 - Aug 2023*

- Worked on **access stratum** in beyond **5G team**.
- **Problem statement**: Identify **data transfer issues** from UE (User Equipment) to eNodeB/gNodeB.
- Developed **code from scratch**, refining raw data into **structured tabular form** using diverse patterns.
- Analyzed data, performed various operations, and created several functions to detect dataset issues systematically.
- Presented identified issues through concise **HTML summary report**.
- **Techstack**: *Python, OpenPyXL, Pandas, Numpy, Plotly, HTML, CSS, JavaScript.*

Projects

RJ Blogs | *React.js, Redux, Bcrypt.js, JWT, Bootstrap, Express.js, Axios, Mongoose, MongoDB* GitHub | WebSite

- Developed a **blog application** using the **MERN** stack.
- Implemented secure **login/signup** functionality to ensure user authentication.
- Implemented **CRUD** operations for user-managed blog activities and **auto-login** for returning users by checking local storage for stored credentials, thereby enhancing the user experience by **15%**.

Shooting Circle | *HTML, CSS, JavaScript, JS Canvas* GitHub | WebSite

- Created a **web game** allowing users to earn points by hitting targets with projectiles.
- The game concludes if any target successfully hits the user.
- Employed **Object-Oriented Programming**, creating classes like Player, Projectile, Enemy, and Particle.

Technical Skills

Languages: C++, C, Python, JavaScript, SQL
Web Development: HTML, CSS, Bootstrap, React.js, Redux, Express.js, Node.js, Axios
Data Science: Pandas, Numpy, OpenPyXL, Plotly
Database: MongoDB, MySQL
Tools: GitHub, Postman, VS Code
Other Skills: Data Structures and Algorithms, Object-oriented Programming, Operating System, Database Management System, Computer Networks

Competitive Programming

Codeforces : piyush_razz **Expert** (1744)
CodeChef : piyush_razz **5 stars** (2070)
AtCoder : piyush_raj **4 Kyu** (1331)
Leetcode : piyush_razz **Guardian** (2218)

Achievements

- Solved more than **1500+** problems across different coding platforms.
- Achieved a Global Rank of **289** in **Google Kickstart** Round D 2022.
- Achieved a College Rank 2 (AIR **230**) in **ICPC India** 2022 Preliminary Online Round in Kanpur region.
- Advanced to Round 2 in **Meta Hacker Cup** 2023. |*Certificate*
- Selected at **Amazon ML Summer School** 2023. |*Certificate*
- Achieved a Global Rank of **2028** among 10,000+ teams in **Google Hash Code** 2022. |*Certificate*
- Completed *The Complete 2023 Web Development Bootcamp* course by Angela Yu on Udemy. |*Certificate*

Positions of Responsibility

- Member of the organizing committee for **Srijan'23**, one of the biggest socio-management fest in Eastern India.
- Mentored around **150** students in Programming at **Being Artifex Skillathon**.