Mushkan Kumari

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EDUCATION

National Institute of Technology Durgapur	Durgapur, West Bengal
B.Tech in Computer Science and Engineering - CGPA: 9.17	*Nov 2022 – Ongoing*
Sunrise English Private School	Abu Dhabi, UAE
CBSE Class XII(PCMB): 95.6%	*2022*
Sunrise English Private School	Abu Dhabi, UAE
CBSE Class X: 97.2%	*2020*

SKILLS AND COMPETENCIES

Languages: C/C++, Python, SQL, HTML/CSS
Developer Tools: GitHub, VS Code, Google Colab
Python Libraries: NumPy, Matplotlib, SciPy
Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Software Engineering, Data Communication and Computer Networks, Operating Systems, Embedded Systems

PROJECTS

Railway Reservation System | *C*   Oct 2024- Dec 2024
- Led a group of 10 people to develop a client-server railway reservation system using C , TCP socket programming and multithreading, with support for multiple trains and dynamic pricing
- Implemented seat allocation policies prioritizing aged passengers, waiting list management, visual seat availability matrix, and automated PNR generation
- Ensured data consistency for concurrent user sessions through thread synchronization

Multi-purpose Bot | *Arduino IDE, C++*   Jan 2023
- Developed a multipurpose bot with the following features: Robotic Arm, Wifi Controlled, Obstacle Avoidance and Line Follower
- Used IR transmitters to send inputs to Arduino
- Bot is controlled by the corresponding output

ACADEMIC ACHIEVEMENTS

- Achieved a CGPA of 9.17, placing among top 5% in department
- Awarded "Exceptional Achiever" at 8th India Middle East Education Awards 2022

EXTRACURRICULAR ACTIVITIES

- 5-star badge in **CPP** and **SQL** at HackerRank
- Appreciation Certificate for **XPLORATEUR** and **RED ODDYSEY** (using the multipurpose bot) at AAROHAN 2023 (Team Event)
- **Gold Medal** - National Astronomy and Science Olympiad 2019
- **Silver medal** - KenKen Championship UAE 2018 & 2019