MAYANK PRATAP SINGH

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Education

National Institute of Technology (NIT), Durgapur, India
B.Tech in Electronics and Communication Engineering | CGPA- 7.94   *2021 – 2025*
Shri Jagannath Shah Memorial Public School, India
ISC (Class XII) | Aggregate: 91.75%   *2019 - 2020*
ICSE (Class X) | Aggregate: 89%   *2018 - 2019*

Skills

Programming Languages: C++, Java, Python
Web Development: HTML, CSS, Angular, Bootstrap, ASP .NET Framework
Database: SQL, Microsoft SQL Server Management System
Other: Data Structures and Algorithms (DSA), Object-Oriented Programming (OOPs), Agile Methodology (Scrum), RESTful API Development, Operating Systems (OS), Microsoft Excel, Inventory Management, Performance Tracking

Non-Technical Skills: Public Speaking, Collaboration, Communication, Planning, Teamwork, Leadership, Active learning, Critical thinking

Professional Experience

PWC Summer Internship   *May - July 2024*
Project: Resource Allocation and Management System (Microsoft Competency)
Engineered a comprehensive resource allocation system leveraging Angular, ASP.NET Framework, and Microsoft SQL Server; conceptualized and implemented dynamic tracking mechanisms and skill-based assignment algorithms, significantly enhancing administrative oversight, streamlining project workflows, and optimizing resource utilization for improved operational efficiency.

Web Development Internship   *June - July 2022*
Completed an internship with an e-commerce platform, contributing to web page management and adding new functionalities. Contributed to inventory data presentation and workflow enhancements, ensuring seamless integration of web functionality, which collectively improved operational decision-making and user experience

Projects

BloomCare: Smart Healthcare Portal with Chatbot & Reports
Designed and developed BloomCare, a role-based Angular-Node.js healthcare platform featuring CURA chatbot for 100+ queries, patient record management, and secure PDF report handling via Google Drive API. Implemented advanced location based search for doctors, labs, and nearby hospitals. Built dynamic, searchable home dashboard with filters for medical services. Architected four RESTful APIs (users, authentication, doctors, labs, hospitals) with complete role separation for admin and users.

Library Management System
Developed and optimized RESTful APIs using ASP.NET Core for efficient CRUD operations, leveraging Entity Framework Core for robust database interaction and data integrity. Implemented secure CORS policies and conducted comprehensive testing and documentation of APIs with Swagger and Postman.

Traffic Light Detection
Engineered a YOLO-based deep learning system for traffic light state detection, achieving 90%+ accuracy on Kaggle datasets and real-time video streams. Optimized with OpenCV and HSV segmentation for robust performance under low visibility and adverse weather.

Positions of Responsibility

Convenor @ ISTE Students' Chapter NIT DGP   *02/2022 – Present*
Coordinated with the team in organizing and publicizing 10+ events for the year 2022 - 2024. Spearheaded the Design, Development and continuous website updates for the college chapter. Led the of social media promotion team-Increased LinkedIn followers from 270 to 2.5k.

Vice-President @ Maths N Tech Club NIT DGP   *02/2022 - Present*
Led the planning and promotion of 10+ events and workshops (2022–2024), including the Techno-Management Fest "Arrohan" Managed social media strategy and content for Facebook, Instagram, LinkedIn, and the website, driving follower growth from 200 to 1k on LinkedIn and 3k to 6k on Facebook.

Accomplishments

- Represented NIT Durgapur in Inter-NIT Hockey Men's Tournament 2023 (Calicut) and 2024 (Trichy) as Vice-Captain and Goalkeeper.
- Cleared Flipkart Grid 5.0 Level 1.
- Winner of Techmela @ Aarohan-23, one of Eastern India's premier techno-management fests.
- Secured a rank of 1203 in JEE Advanced 2021 out of 150,000+ candidates.