Ayush Raj

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SKILLS

Programming Languages: Java, JavaScript, PHP, C/C++.
Web Development: HTML, CSS, JavaScript, Node.js, Tailwind CSS, React.js
Version Control: Git, GitHub.
Tools/Platforms: Excel, MySQL, VS Code, DBMS.
Soft Skills: Problem-Solving Skills, Team Player, Project Management.

PROJECTS

Incident Reporting and Safety System :   January 2025 – March 2025
- Developed a full-stack incident tracking system using PHP and MySQL.
- Integrated Leaflet.js to visualize geospatial data on an interactive dashboard map.
- Created a responsive, mobile-first interface using Tailwind CSS.
- Engineered a backend architecture to handle secure CRUD operations and file uploads.
- Executed dynamic JavaScript logic to filter data by incident type and timeframe.

Travel Safety Bot :   January 2025 – March 2024
- Built a full-stack Travel Safety Bot using Python (Flask) and Bootstrap to deliver real-time risk assessments.
- Engineered a logic engine that processes multiple data inputs (weather, crime, traffic) to generate dynamic safety alerts.
- Designed RESTful API endpoints and applied asynchronous JavaScript (Fetch) for seamless UI updates.
- Generated a responsive, interactive frontend featuring custom CSS animations and reactive data visualization.
- Implemented robust data mocking systems to simulate external APIs and test application stability under edge cases.

Smart Parking Management System :   June 2025 – August 2025
- Expanded a GUI-based application using C++ and the Qt Framework to automate vehicle parking, unparking, and record maDenagement processes.
- Enforced efficient backend logic with C++ and Qt's Signal-Slot mechanism to handle real-time slot allocation and event-driven user interactions.
- Made for a user-friendly interface in Qt Creator featuring dynamic table updates, color-coded status feedback, and intuitive form validation.cer
- Integrated advanced features like instant vehicle search and a stack-based undo function to eliminate manual errors and enhance operational speed.
- Optimized system architecture by separating UI, business logic, and data layers to ensure scalability for future IoT and cloud integrations.
- Tech Stack: C++, Qt Framework 6.x, Qt Creator, Windows 10 OS.

CERTIFICATES

- NPTEL online Certification- Cloud Computing   May 2025
- **Iamneo** :
    – Data Structures and Algorithms (DSA)   December 2024
    – Object Oriented Programming (OOPs)   December 2024
    – Java Programming   May 2025
- W3grads - Master DSA with Java/C++   June 2025
- Google - The Bits and Bytes of Computer Networking   August 2024

Achievements

- Solved more than 500 problems across platforms like NeoCollab and GeeksforGeeks
- Secured first place in a university-level debate competition organized by the School of Law at LPU.

EDUCATION

Lovely Professional University   Jalandhar, Punjab
Bachelor of Technology - Computer Science and Engineering; CGPA: 6.05   *Since August 2024*

Eklavya University   Damoh, Bhopal
Intermediate; Percentage: 75%   *April 2019 - June 2022*

Jesus and Mary Academy   Patna, Bihar
Matriculation; Percentage: 63%   *April 2017 - March 2019*