TANYA SINGH

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Summary

Computer Science graduate with expertise in C++, SQL, PHP, and full-stack web development, specializing in the MERN stack, React, and scalable applications. Experienced in building dynamic, high-performance solutions with a strong focus on problem-solving, database management, and emerging AI/ML technologies.

Education

Dr. A.P.J. Abdul Kalam Technical University	**2021-2025**
• *BTech in Computer Science & Engineering*	*72%*

Experience & Internships

Full Stack Developer Intern – Yhills Ltd. , Noida   **Jun 2024 – Dec 2024**

✓ Created and implemented high-performance, scalable web applications with **React.js, HTML, CSS, JavaScript, and Tailwind CSS** to ensure cross-browser compatibility.

✓ Developed and **optimized responsive UI/UX** for portfolio and e-commerce sites, improving user interaction and usability.

✓ Included **RESTful APIs to facilitate dynamic updates** of real-time data to enhance application performance and interactivity.

✓ Applied **modular development and code optimization methods**, enhancing performance and maintainability.

✓ Experienced working in an **Agile setup, utilizing Git version control and CI/CD pipelines** for smooth collaboration and deployment.

Project

Visual Meet - Online Video Calls, Meetings & Conferencing - live link 🔗

☞ **Repo Link** ⇔ **Tech Stack:** JavaScript, MERN (MongoDB, Express.js, React.js, Node.js), Socket.io, Agora RTC

- Built a secure real-time video conferencing solution with group calls, screen sharing, and interactive live sessions on **MERN stack, Socket.io, and Agora RTC.**
- Designed **role-based authentication and access control** to increase security and management of users.
- Integrated **Socket.io and Agora RTC** for low-latency, instantaneous video/audio streaming and real-time communication.
- Improved performance and scalability through effective **state management, API processing, and WebRTC technologies**.

Duolingo Clone – Language Learning App - live link 🔗

☞ **Repo Link** ⇔ **Tech Stack:** Next.js, React.js, TypeScript, PostgreSQL, Drizzle

- Built a gamified language-learning system with **Next.js, React.js, PostgreSQL, and Drizzle**, providing tailored learning paths and **real-time tracking**.
- Implemented **safe payment processing and subscription management** for hassle-free transactions and user access control.
- **Combined interactive audio-visual content**, leaderboards, and rewards for user engagement and retention.
- Tuned backend performance with **PostgreSQL and Drizzle** to provide efficient data handling and scalability.

Technical Skills

- **Programming Languages: C/C++, JavaScript (ES6+), Java, Python, Data Structures & Algorithms (DSA)**
- **Frontend Technologies: HTML5, CSS3, Bootstrap, Tailwind CSS, React.js, Next.js, jQuery**
- **Backend Technologies: Node.js, PHP, Express.js, RESTful APIs**
- **Databases: MongoDB, SQL/MySQL, PostgreSQL**
- **Development Tools: Git, GitHub, Vercel, Netlify, Postman, VS Code**
- **Other Skills: Agile Development, Code Optimization, API Integration, Performance Tuning**

Relevant Coursework

⇒ **Data Structures & Algorithms**	⇒ **Full Stack Web Development**	⇒ **Computer Networks**
⇒ **Database Management Systems (DBMS)**	⇒ **Object-Oriented Programming (OOPS)**	⇒ **Artificial Intelligence**
⇒ **Operating Systems**		

Awards and Achievement

🏆 Solved **350+ DSA problems** on **LeetCode**, securing **16+ badges**.

🏆 Achieved **Top 18K Global Rank** among **500K+ users** on **Leetcode(Top 15%)**.

🏆 **State-Level Chess Representative & AKTU Zonals Winner** (2021-2025).

🏆 Secured **4 Gold Medals & 1 Silver Medal** at **AKTU Zonals & State Chess Tournaments**.

🏆 **State-Level Scout & Guide Representative** (2012-2019).