

Yash Ahuja

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Summary: Highly motivated Computer Science Engineering student with hands-on experience in full-stack development, data management, and API integration. Proven ability to build scalable web applications and optimise code for efficiency, eager to contribute to innovative AI-driven solutions in a dynamic startup environment.

Technical Skills

- **Languages:** Python, JavaScript, HTML/CSS, Java, C, C++, Typescript, Golang
- **Frameworks/Libraries:** React.js, Next.js, Node.js, Express.js, Tailwind CSS, Matplotlib
- **Databases:** MongoDB, MySQL, PostgreSQL
- **Tools & Platforms:** Git, GitHub, VS Code, IntelliJ IDEA, AI Tools
- **Concepts:** RESTful APIs, Scalable Architecture, Authentication (JWT), Data Structures, Algorithms, Performance Optimisation

Education

Guru Gobind Singh Indraprastha University | New Delhi, India Bachelor of Technology in Computer Science and Engineering | GPA: 8.696/10.0 2023 - *Present*

The Indian School, Sadiq Nagar, New Delhi | New Delhi, India CBSE (12th Standard) - Aggregate: 91% (2022-2023) CBSE (10th Standard) - Aggregate: 92.4% (2020-2021)

Projects

InningInsights | Next.js (React), Node.js, Express.js, Python (ML), PostgreSQL, Docker, Prisma

- Developed a full-stack web application designed for **predicting IPL match scores and winners** using **Machine Learning**, providing **live predictions** and **real-time updates** to users.
- Engineered a **modern, responsive frontend** with **Next.js (React)**, enabling intuitive user interaction, secure authentication, and dynamic display of match predictions and statistics.
- Built a **scalable backend API** using **Node.js** and **Express.js** to handle user requests, manage data, and serve predictions from the ML model, integrating with a **PostgreSQL database** via **Prisma ORM**.
- Designed and implemented a dedicated **Python-based ML service** for **data processing, model training, and prediction inference**, ensuring accurate and efficient sports analytics.
- Utilised **Docker** for containerization and established **CI/CD pipelines** for automated deployment, ensuring **high availability and scalability** for potential large user bases.

ReaderReviews Hub | *MERN Stack (MongoDB, Express.js, React, Node.js), JWT, Bcryptjs, Axios*

- Developed a full-stack MERN application managing over 1000 book reviews, enabling scalable user engagement.
- Implemented secure user authentication (JWT, Bcryptjs) and designed high-performance RESTful APIs for efficient data retrieval.
- Managed MongoDB data persistence with automated rating updates, demonstrating complex data manipulation for real-time insights.

Chessy | *HTML, TailwindCSS, JavaScript, chess.js, stockfish.js, socket.io*

- Engineered a multiplayer Chess Web Application with real-time communication, supporting interactive gameplay.
- Integrated `chess.js` and `stockfish.js` for core game logic and advanced game analysis, providing insights for ELO improvement.
- Developed a responsive UI using Tailwind CSS, enhancing user experience.

Academic & Extracurricular Activities

Google Developer Student Club (GDSC), ADGIPS | Technical Team Member *Oct 2023 - Present*

- Contributed to multiple projects and served as a core team member for the "Hack-n-Chill" hackathon, fostering rapid prototyping.

Smart India Hackathon (SIH'23) | Participant (Pre Final Round)

- Engaged in intense development cycles, reinforcing problem-solving skills under pressure.

Robogyan Society | Member *Dec 2023 - Present*

- Actively involved in technical projects, applying engineering principles.

Interests

Passionate about distributed computing, machine learning, and natural language processing, with a keen interest in optimising code for efficiency and building resilient, impactful technology.