

Yuvraj Singh

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EDUCATION

National Institute of Technology Durgapur <i>BTech Electrical Engineering</i>	October 2021 - June 2025 Current GPA: 6.82
Shree Jain Vidyalaya, Kolkata <i>Higher Secondary (Class 12th), WBCHSE</i>	Aug 2018 - Feb 2020 Percentage: 86%
I.P Memorial School, Liluah, Howrah (Secondary(Class 10th)) <i>Board: WBBSE</i>	2008 - 2018 Percentage: 76%

EXPERIENCE

Frontend Intern @ Innovaciotech <ul style="list-style-type: none">Developed a dynamic PDF generation feature using the React-pdf package, integrating backend APIs to render customized, client-specific PDFs with precise formatting and optimized performance.Contributed to ERP systems for managing client and employee data, enhancing frontend functionality and overall user experience.	<i>Next.js, TypeScript, React — August 2024 – February 2025</i>
SDE Intern @ Mphasis <ul style="list-style-type: none">Built a full-stack data management system for institutions to securely manage MySQL records.Implemented an Express.js backend supporting dynamic database connections and robust CRUD operations.Developed a user-friendly Angular frontend for seamless interaction with database records without SQL knowledge.Integrated authentication, rate limiting, and SQL injection protection for secure API communication.Structured the codebase using a monorepo architecture, enabling efficient development and deployment.	<i>Angular, Express.js, MySQL — February 2025 – June 2025</i>

SKILLS

Languages: JavaScript, TypeScript, C++, Java, SQL

Tools: Git/GitHub (Version Control), VS Code, Turborepo, Docker, Prisma (ORM)

Soft Skills: Team Leadership, Mentoring, Problem-Solving, Time Management, Communication, Adaptability

Frameworks: Next.js, Node.js, Express.js, SpringBoot, Angular

Libraries: React.js, Redux, TailwindCSS

Concepts: Responsive Web Design, Clean Code, Scalable Applications, API Development (RESTful), Software Design Patterns

PROJECTS

Payment Transfer Web Application <i>Next.js, TypeScript, NextAuth.js, Prisma, TailwindCSS, Docker, Turborepo</i> <ul style="list-style-type: none">Built a full-stack Paytm clone simulating real-world payment workflows using modern web technologies.Implemented secure authentication with NextAuth.js supporting multiple providers.Designed a mock banking webhook system to simulate real-time fund transfer and asynchronous payment updates.Used Prisma ORM and PostgreSQL for robust backend data modeling and transaction history.Styled UI using TailwindCSS for responsive, clean design.Adopted Turborepo for monorepo structure, improving modularity and developer experience.Deployed to a GCP e2 instance using Docker with a complete CI/CD pipeline for automated build, test, and release.Live: app1.yuvrajsingh.life Code: GitHub Repository
Studybot Web Application <i>Next.js, TypeScript, Express.js, Prisma, TailwindCSS</i> <ul style="list-style-type: none">Engineered a study assistant web app with a responsive frontend and robust backend architecture.Integrated the LLaMA3 AI model (8B params) for natural language Q&A and contextual guidance.Built RESTful APIs for client-server communication and real-time updates.Added a quiz module for users to take practice tests and track performance.Code: Studybot GitHub Repository

ACHIEVEMENTS

Reached a 1500+ rating on CodeChef through consistent participation and problem-solving.

Selected and participated in the Smart India Hackathon (SIH).

EXTRACURRICULARS

Chess, Music, Reading Books.

Building WebDev projects.