

# YASH PANDEY

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## EDUCATION

- Birla Institute of Technology Mesra  
*Bachelor of Technology, Computer Science*
- Loyola School Jamshedpur  
*Class 11 and 12*
- Don Bosco School Park Circus  
*Class 1 - 10*

**Ranchi, Jharkhand**  
*September 2023 – 2027*  
**Jamshedpur, Jharkhand**  
*March 2020 – June 2022*  
**Kolkata, West Bengal**  
*2010 - 2020*

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## COURSES

- [Learn React | Scrimba](#)
- [Learn Javascript | Scrimba](#)
- [Learn Firebase | Scrimba](#)
- [NEXT.JS Tutorial](#)
- [100xdevs 0-100 Full Stack Web Development Course](#)
- Programming for Problem Solving

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## EXPERIENCE

### Meet Bot

- **Automated Browser Control:** Developed a Selenium-based automation to remotely control browsers, including launching Google Meet sessions and interacting with UI elements such as popups and input fields.
- **Screen Recording Integration:** Implemented functionality to record the browser screen and audio using MediaRecorder.
- **Efficient Output Management:** Automated the process of saving recorded sessions as downloadable .webm files, streamlining the workflow for meeting recording and retrieval.

### Sudoku Solver Web App Using ML

- A robust backend for a Sudoku solver web application that processes image uploads, decodes Sudoku puzzles, solves them, and returns the solutions via WebSocket connections.
- **Real-Time Image-to-Solution Pipeline:** Designed and implemented a scalable backend to process Sudoku puzzle images, decode them into grids using Machine Learning, solve the puzzles, and deliver solutions via WebSocket connections.
- **Queue-Based Architecture:** Utilized Redis for efficient queuing and pub/sub messaging between image processing, solving workers, and the WebSocket server, ensuring seamless communication and workload distribution.
- **Comprehensive Technology Integration:** Integrated Node.js, Express.js, TypeScript, WebSocket (ws), Redis, Multer, and Axios to handle HTTP requests, real-time updates, file uploads, and puzzle solving, with robust error handling throughout the pipeline.

### Club Website

- Designed an interactive frontend for my college's robotics club website.
- Implemented an admin portal to update content on the website.
- Used real-time database to keep track of the clubs inventory and automate the process of borrowing parts from inventory.

### Portfolio Site (Node.js, React.js, Next.js, TypeScript, HTML, Tailwind CSS, Firebase,)

- Full stack web app built using Next.js deployed on Vercel and used Tailwind CSS for styling.
- Implemented message section using firebase which allows the user to send a message to me.

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## SKILLS

- **Languages:** C++, Java, JavaScript, TypeScript, HTML
- **Technologies:** Firebase, React.js, Node.js, Next.js, Express.js, MongoDB, Postgresql, Tailwind CSS, Git, AWS, Redis, Websockets, Docker.
- **Non-Technical:** Teamwork, Problem-solving, Critical thinking, Adaptability, Leadership

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## INTERESTS

- Web Development
  - Photography
  - Competitive Programming
  - Video Games
  - Badminton
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