

Harsh Wasnik

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PROFESSIONAL SUMMARY

Versatile developer pursuing an Integrated degree in Mathematics and Computing, distinguished for collaborative skills and a track record of independently delivering impactful results. Ample experience in full-stack development, delivering well-documented, tested, and operable code. Efficient in collaborating and communicating new ideas and opinions.

EDUCATION

Indian Institute of Technology Kharagpur	Mathematics and Computing	Grade: 7.76	2025
Tuli Public School	Class 12th	Grade: 85%	2020
Marie Poussepin's Academy	Class 10th	Grade: 91.6%	2018

TECHNICAL SKILLS

Languages : C/C++, Python, MySQL, JavaScript, TypeScript*, Java*, HTML, CSS **Frameworks/Libraries** : jQuery*, React.js, Next.js, Node.js*, Flask, Django, Material UI, Tailwind CSS, Bootstrap **Developer Tools** : Git, GitHub, Docker, Azure*, Postman, Linux

EXPERIENCE

- Full Stack developer intern** | Infinite Loop Technologies Private Limited Jun'22 – Aug'22
- Developed NGINX-based live video streaming server: RTMP ingest, HLS delivery, supports 512 concurrent video streams.
 - Implemented live chat feature by using Django Channels to use WebSockets protocol enabling real-time communication
 - Converted monolithic to microservices architecture by dockerizing application and upgraded from Django 2.2 to 4.2 LTS
 - Developed APIs utilizing the Django Rest Framework to support CRUD operations for various types of social media posts

PROJECTS

- Resume shortlisting tool** | Self Project Jan'24 – Feb'24
- Built an application empowering Hiring Managers by suggesting suited resumes for a Job from a pool of uploaded resumes
 - Utilized PyMuPDF to extract text from resumes and utilized Open AI API to categorize the data and score the resumes for a job
 - Built web app using Material UI in React integrated with APIs built using django-rest-framework and dockerized the setup
- LeetCode problems Search Engine** | Self Project May'23 – Jun'23
- Extracted Titles, descriptions, and links of 2200+ LeetCode problems using Python and Selenium for further processing
 - Computed the Term Frequency and Inverse Document Frequency to rank problems based on TF-IDF score for search query
 - Built a web application using Flask to provide user interface to search problems and show results and deployed it on Render
- Cricket Team Selector and Match Outcome Predictor** | Prof. Bibhas Adhikari | Term Project Feb'23 – Apr'23
- Extracted player performance and ball-by-ball data for last 533 ODI Intl matches using Selenium and BeautifulSoup in Python
 - Attained best accuracy of 86.14% to predict match outcome by utilizing Random Forests model trained on 1.37 lakh balls
 - Devised a batsman and bowler strength index to select the playing 11 from a pool of 20 players using the team selector model
- Customer Relation Management Application** | Self Project Apr'22 – Jun'22
- Developed a comprehensive Customer Relationship Management system using Django for efficient order management
 - Implemented custom Django forms along with decorators to streamline CRM operations, resulting in increased efficiency
 - Utilized Django Templates to craft visually appealing UI along with using template inheritance ensuring a seamless experience
- Social Media Application** | Self Project May'21 – Jun'21
- Built a social media app using MERN stack enabling users to create, share, and react to posts in an online environment
 - Employed Context API for state management and reduced the API calls significantly, resulting in a 30% reduction in load time
 - Incorporated Json Web Token(JWT) Authentication for secured user access by allowing only logged-in users to view posts

ACHIEVEMENTS

- Hack-an-Intern** | KodeinKGP Oct'22 – Nov'22
- Objective: Implement a trading platform where users can trade tokens amongst other users while supporting different types of orders
- Among the top 3 teams in a 48-hour long institute-wide Hackathon, which received participation from 20+ different teams
 - Built a user-friendly interface using React.js, Ant Design and utilized Highcharts.js to incorporate dynamic price charts
 - Developed a stock price matching algorithm for limit and market orders enabling dynamic pricing using Django backend
- Website Hackathon** | Technology Students' Gymkhana, IIT Kharagpur Dec'21 – Jan'22
- Objective: Develop a one-stop solution to manage all co-curricular and extra-curricular activities under the purview of TSG
- Led a team of 11 members to win the podium in multiple categories and achieved the First Position amongst 30+ teams
 - Built React.js website served through django-rest-framework APIs along with jwt authorization and email verification via OTP
 - Incorporated innovative features like Bill Reimbursement Portal, Grievance Portal, real-time Notifications, and Admin Panel

COURSES AND CERTIFICATION

File Organization and Database Management System | Design and Analysis of Algorithms | Programming and Data Structures | Big Data Analysis | Computer Organization Architecture | Usable Security and Privacy | Computer Networks

POSITIONS OF RESPONSIBILITY

- Tech Team Sub Head** | Kshitij, IIT Kharagpur Aug'21 – Jun'22
- Developed and managed the Kshitij'22 website driving 19,500+ registrations and the Admin Panel for content management
 - Boosted the desktop performance on PageSpeed insights to 88 through lazy loading images and reducing network payload
 - Automated the certification process by innovating a certificate generator app used by 3000+ participants of Kshitij'22