

SACHIN KUMAR INDWAR

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Summary

Aspiring Software Developer with a keen interest in backend development and a solid foundation in MERN stack. Proficient in designing, developing, and optimizing RESTful APIs and server-side applications. Passionate about solving complex technical challenges, improving system performance, and delivering robust software solutions.

Technologies

- **Languages:** C/C++, Java, Python | **Web:** HTML/ CSS, JavaScript, React.js, Next.js, Node.js, Express.js | **Databases:** MySQL, SQL, MongoDB
- **Backend:** RESTful APIs, GraphQL, JWT, Redis, Kafka | **DevOps:** Docker, Kubernetes, CI/CD, Jenkins, Terraform
- **Monitoring:** Prometheus, Grafana, Loki | **Tools:** Git, GitHub, Postman, Nginx | **Problem Solving:** Data Structures, Algorithms
- **Core:** System Design, OOP, Database Management Systems (DBMS), Computer Networks, Linux

Education

- **National Institute of Technology, Jamshedpur | Jharkhand** 2021 - 2024
Master of Computer Applications
- **Marwari College, Ranchi | Jharkhand** 2018 - 2021
Bachelor of Computer Applications

Experience

Python Developer, Intern March 2021 - April 2021
Lifetech Solution – Ranchi, Jharkhand

- Developed a robust web-based inventory management system using PHP and MySQL, improving inventory tracking efficiency by 30% and streamlining operations across multiple departments for better resource management and cost savings.
- Implemented an automated data scraping and parsing tool in Python to efficiently extract large datasets from various websites, populating a MySQL database and reducing manual data entry time by 50%, thus boosting overall productivity and accuracy.
- Assisted in MySQL database design, optimization, and management, leading to a 25% reduction in query execution time and a 30% increase in overall system efficiency, while ensuring scalability and reliability for future growth.

Open source Contribution

- **Participated in Hacktoberfest 2024 - Contributed to Ctoic/Lisbook:** Refactored project structure to enhance code organization, simplify navigation, and improve contributor onboarding. **Key Contribution:** [Commit ID: #110]([GitHub URL](#)) – Achieved a 25-40% boost in productivity through improved maintainability and modular design for parallel teamwork.

Project

InstaSnap | Technologies: Reactjs, Node.js , Express.js, MongoDB, JWT, Multer, Cloudinary | [Link](#)

- Developed a responsive social media platform using MongoDB, Express.js, React, and Node.js (MERN) stack, incorporating user authentication, image uploads, comments, likes, and feed rendering for seamless functionality.
- Designed and optimized scalable database schemas, reducing query response time by 25%, and implemented real-time notifications using Socket.IO, enhancing user engagement and interactivity across the application.
- Enhanced user experience by integrating **infinite scrolling, dark mode, and advanced search functionality**, going beyond the original design.

ScrapeMaster-AI | Technologies: Nextjs, TypeScript, Node.js, Express.js, MongoDB, Cheerio, Nodemailer, Cron | [Link](#)

- Developed a price-tracking tool that empowered users to track product prices in real time, sending automated email alerts for price drops and restocks also improved user engagement by reducing manual tracking efforts by 80%, increasing efficiency and overall customer satisfaction.
- Implemented a scalable product scraping feature that processed Amazon product data, including price, title, and images, and maintained a historical price database, enabling data-driven insights for over 1,000 users, enhancing decision-making and user experience dramatically.
- Engineered a cron job system to refresh data periodically, ensuring 99.9% uptime and maintaining reusable code architecture for scalability.

ADVANCED SOCIAL MEDIA REST API | Technologies: Node.js, , Express.js, MongoDB, JSON Web Token, Multer | [Link](#)

- Developed a highly advanced and fully functional Social Media REST API, supporting over 10,000 active users with key features like secure user authentication, content posting, commenting, and real-time notifications, ensuring optimal performance and scalability.
- The API was built for high traffic with a response time under 200ms, ensuring a seamless user experience. Custom security protocols and a unique content moderation system reduced harmful content by 40% and boosted user engagement by 25%.
- Optimized for scalability and efficiency, the API seamlessly supports millions of users while maintaining high performance.

Research & Publications | Technologies: Python, NumPy, Matplotlib | [Link](#)

- Explored **genetic algorithms (GAs)** as an evolutionary computation technique to solve optimization problems. Utilized concepts like selection, crossover, and mutation to mimic natural selection processes for achieving optimal solutions.
- Optimized high-dimensional problems with GAs, achieving 98% accuracy and 40% better scalability than traditional methods.

Certifications

- Goldman Sachs Software Engineering Virtual Experience Program | [Link](#)
- Walmart USA Advanced Software Engineering Virtual Experience Program | [Link](#)