NAVYA KATIYAR | 21PH10025

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EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2025	4YRS B.S	IIT Kharagpur	8.79 / 10
2020	Higher Secondary	CBSE	93.6%%
2018	Secondary School Certificate	CBSE	93.2%%

INTERNSHIPS

SOFTWARE ENGINEER INTERN | ENNOBRIDGE   **[April 2024 - July 2024]**

- Constructed a tailored web application for the Navodaya Vidyalaya Samiti Retired Employees Association using **HTML, CSS**, and **JavaScript**; the initiative streamlined communication and resource sharing, positively impacting **150+** retirees monthly.
- Launched an innovative user-administrator communication platform powered by **NodeMailer**, which increased engagement with over 50 users, leading to improved feedback collection and a more responsive customer service experience overall..
- Optimized performance, reducing load times by 30%, which led to a 20% increase in user engagement.
- Acquired expertise in Azure services and payment integration, crafting a user interface that enhanced user satisfaction.

PROJECTS

NEXTHIRE - Job Portfolio Application | Self Project   **[August 2024]**

- Developed a job portal with **JWT-based** authentication and **MongoDB** data management, handling **50+** daily logins with **99.9%** uptime. Implemented backend functionality in **Node.js** and **Express.js**, including a table reservation system.
- Engineered sophisticated dashboards for profile and application management, integrating **NodeMailer** for real-time email notifications; enhanced user engagement metrics by 40% while reducing response times by 50% across the platform.
- Implemented a rigorous testing framework that streamlined the identification of performance bottlenecks, achieving a 25% reduction in load times across all pages and enhancing user retention rates by 15%.

DISH DELIGHT - A Restaurant Application | Self Project   **[August 2024]**

- Created an intuitive **React-based** user interface, utilizing static **JSON** for efficient data presentation; significantly improved user satisfaction scores by 30% as measured by customer feedback surveys post-launch and enhanced user engagement.
- Integrated a state-of-the-art notification system that confirmed table bookings in real-time, effectively streamlining operational processes and significantly increasing overall customer trust and satisfaction in the reservation system.

STATE OF CHARGE ESTIMATION | Bachelor Thesis   **[July 2024 Present]**

- Formulated state-of-charge estimators using voltage and current measurements, analyzing their limitations.
- Implemented data-driven probabilistic models, including **Gaussian Process Regression**, **Data Belief Networks**, and **SVM**.
- Collected Li-ion battery performance data under varying temperature conditions.

CERTIFICATIONS

OOPS in JAVA | Geekster   **[May 2024]**

- Enhanced expertise in **encapsulation, inheritance, polymorphism, and abstraction** through hands-on practice.
- Applied concepts in projects like a **School Management System**, **Car Showroom System,** focusing on scalable solutions.
- Equipped to utilize advanced Java techniques for innovative software development in future projects.

SKILLS AND EXPERTISE

- **Programming Languages / APIs &Integrations:** C | C++ | JavaScript | Python | Java | RESTful | APIs | JSON | Ajax
- **Web Technologies:** HTML | CSS | React.js | Node.js | Express.js | HTML5 | CSS3 | Tailwind | CSS | Material UI | MERN Stack
- **Databases / Tools and Platforms:** MongoDB | SQL | Git | Azure | VS Code | Jupyter Notebook | Firebase | Postman
- Solved 1,000+ problems on LeetCode and 500+ problems on GFG | Strong understanding of Data Structures and Algorithms.

COURSEWORK INFORMATION

- **Institute Course**: Programming and Data Structure | German | Probability and Statistics | Computational Physics
- **Miscellaneous**: Data Engineering | Basics of Java Backend | Oops in Java | Database Management System | Basics Of LLD | System Design | SQL | Advanced React | Frontend Technologies | Introduction to Java | Introduction to Cloud Computing

POSITIONS OF RESPONSIBILITY

Associate Member |PHY Society   **[Sept 2022 - April 2023]**

- Organized a range of academic and professional events, including seminars, guest lectures by industry professionals and ISRO experts, and internships and placement talks. Coordinated engaging discussions with PhD experts to enhance students' academic and career development, fostering valuable connections and insights for future opportunities.

EXTRA CURRICULAR ACTIVITIES

- Active member of the **NCC Infantry Wing** with participation in multiple camps.
- Competed in the Best Cadet Competition, earning the **Best Cadet award** at the District Level
- Honored as **Shakti Yoddha** by the District Magistrate on International Women's Day, recognized for leadership, discipline.