

Samrendra Barick

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Education

National Institute of Technology, Rourkela

July 2018 – June 2022

Bachelor of Technology in Computer Science and Engineering

Skills

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

Technologies: React, Express, Next.js, HTML, CSS, Tailwind CSS

DevOps Cloud: CI/CD, Docker, Kubernetes, AWS

Courses and Tools: Data Structures and Algorithm, Wireless Network Hacking, Git, Postman

Experience

Technical Lead, HCLTech – Bengaluru

Sept 2023 – Mar 2024

- Built a comprehensive internal training and testing application leveraging the **MERN stack** (MongoDB, Express.js, React, Node.js), empowering managers to assign and monitor training progress, resulting in a **40% increase** in user engagement and completion rates.
- Engineered an **automated notification system** with **Node.js** to notify employees about new training modules and test schedules via email, enhancing communication and reducing inquiries by **30%**.
- Crafted an intuitive user dashboard using **React**, enabling seamless access to training materials and test results, thereby improving overall user experience and operational efficiency.
- Deployed robust testing mechanisms for chapter completions and final assessments utilizing **Mongoose** (for data validation) and **Jest** (for unit testing), driving a **25% improvement** in training effectiveness and knowledge retention.
- Collaborated with cross-functional teams in an **Agile environment** to gather requirements and feedback, ensuring the application aligned with organizational goals and user expectations.

Technical Lead, HCLTech – Chennai

Aug 2022 – Aug 2023

- Conducted penetration testing on **automotive car infotainment systems**, identifying vulnerabilities in **Wi-Fi** and **Bluetooth**, reducing the risk of security breaches by **70%**.
- Automated the hacking setup with **Python scripts**, enabling a streamlined demonstration process and reducing manual effort by **80%**.
- Developed a **portable mini-box suitcase model** to automate wireless attack simulations, showcased successfully in client demos in **Sydney** and **Taiwan**, increasing client satisfaction by **40%**.
- Applied **reverse engineering techniques** to understand system weaknesses, recommending security improvements that could potentially block **90%** of Wi-Fi and Bluetooth-based attacks.

Projects

Job Application Portal

[Link](#)

- Developed a job application platform using **MongoDB**, **Express**, **React**, and **Next.js**, enabling users to view and apply for job listings from various companies.
- Integrated **Stripe** for secure payment handling, allowing processing of application fees directly within the platform and ensuring compliance with payment security standards.
- Designed a user-friendly dashboard with filters and search functionality to enable faster job discovery.

Property Listing PlatForm

[Link](#)

- Created a real estate listing platform using **MongoDB**, **Express**, **React**, and **Node.js** to allow property owners to list properties and users to view available listings.
- Integrated **Nodemailer** for automated email communication, enabling seamless inquiries between users and listers with instant notifications.