Nhembo Ashriel

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SUMMARY

Software Developer skilled in full-stack development, AI/ML, and robotic diagnostics. Winner of Smart India Hackathon 2022, with experience mentoring 300+ students and building scalable applications using React.js, Django, and Spring Boot. Proven ability to enhance workflows and deliver impactful solutions.

WORK EXPERIENCE

- **Software Development Engineer + Instructor, Newton School**   *02/2024 – 12/2024*
  - Developed full-stack educational content (HTML, CSS, JavaScript, React.js, Node.js, deployment).
  - Improved platform functionality by enhancing the notes creation tool.
  - **Mentored 100+ students**; facilitated hackathon participation and internship placements.
  - **Tech Stack:** React.js, Django, Java, Spring Boot.

- **Research + Software Engineering Intern, Tata Consultancy Services (TCS)**   *06/2023 – 11/2023*
  - Enhanced UI for robotic diagnostics using React.js and Django, **improving workflow by 30%**.
  - Designed and **implemented a database management system for robot-generated data** and **Developed AI/ML models for optimizing robotic operations with accuracy upto 87%**.
  - The project got selected as one of the best Robotics projects worldwide and resulted in the team being invited to **Roboexpo 2024, Tokyo,Japan**.
  - **Tech Stack:** React.js, Redis, Django, ROS (Robot Operating System), Tailwind CSS. Link to project demo video

- **Full Stack Development Intern, Daffodil Health**   *07/2022 – 10/2022*
  - Enhanced web application features for partner hospitals, improving operational efficiency **enhancing customer interaction by 34%**.
  - Implemented features like custom form generation and code optimization.
  - **Tech Stack:** React.js, Spring Boot, MongoDB, Postman, Figma.

SKILLS SUMMARY

- **Languages**:   Python, ROS, C++, Java, JavaScript, SQL, HTML5
- **Frameworks**:   React.js, Vue.js, Springboot, Django, Node.js, Express.js, Redux, Bootstrap, Tailwind CSS
- **Tools**:   Postman, Axios, MongoDB, MS Office, PowerBI, Redis, Figma, Canva, Version Control, RESTful API
- **Platforms**:   Linux, Web, Windows,

EDUCATION

- **Parul University, Vadaodara, Gujarat**   *12/2022 – 06/2026*
  - Bachelor of Computer Science and Engineering ~ Artificial Intelligence.   Graduation date : 11/2026
    (GPA: 7.84/10).
  - **Relevant Courses:** Data Structures and Algorithms, Operating Systems, Web application development, Machine Learning, AI and Data Science.

PROJECTS

- **Movie Review Application - Java Fullstack Project:** 🔘
  1. Developed a full-stack application for browsing movies and viewing reviews using React.js and Java + Spring Boot.
  2. Utilized MongoDB for database management and implemented CRUD operations via REST APIs.
  3. Ensured code reliability by **integrating unit tests with JUnit**.
- **A Collaborative interface design tool - Frontend Project:** 🔘
  - A collaborative graphics design too with real-world features like live cursor chat, comments, reactions, and drawing designs (shapes, image upload) on the canvas
  - Tech stack : Next.js 14, Fabric.js, and Liveblocks.
- **Sociopedia - MERN stack Project:** 🔘
  - Full stack based Social Networking website using MERN stack.
  - Implements features like **"Add friend", "Remove friend", "Like", "Comment", "Upload a Post", "Delete a post"**
  - Upload image while signing up and various other functionalities using different Data structures.

ACHIEVEMENTS

- Global Rank: **535** in CodeChef Starters 84, **662** in Starters 86. 4 star rated on Codechef, among **top 10% of all participants.**
- **Winner**, Smart India Hackathon (SIH) 2022.
- **1100+ DSA problems** solved across multiple platforms including GFG, Leetcode, InterviewBit etc.
- Highest rated instructor for System and Web essentials course at Newton school with an average of **4.67/5** ratings accross all lectures.