Harshit Tibrewal

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TECHNICAL SKILLS

Programming Languages: Python, C++, Java
Development: ReactJS, Next.js, NodeJS, ExpressJS, HTML, CSS, Tailwind, SQL, Typescript, Javascript
Database: Oracle SQL, MongoDB, Firebase
Tools and Frameworks: Git, Docker, Linux, Selenium, Visual Studio Code, Android Studio, IntelliJ, PyCharm

WORK EXPERIENCE

Engineer
IDFC First Bank, Bengaluru   *Jul 2024 - Present*

- Architected and crafted **Thanos**, a highly scalable backend model using **Python** and **Oracle SQL**, executing approximately **1000** test cases in parallel via API, reducing regression time from **5hr to 1hr (80% reduction)**.
- Developed a UI framework with **React** and **Next.js**, allowing users to upload over **50+ regression test suites**, **automate 100+ API calls**, and visualize execution results via **graph notation** showing pass/fail percentages.
- Analyzed the **root cause** of **20+ user-reported issues** during **Thanos** test suite onboarding, designed and engineered optimized fixes that improved stability and **reduced recurring defects by approximately 40%**.

Engineer Intern
IDFC First Bank, Bengaluru   *Feb 2024 - Jun 2024*

- Built a efficient **Python** and **SQL**-driven **Directed Acyclic Graph** to **cluster 10,000+ similar test cases**, visualizing sequential flows (e.g., ABC, ABCD grouped; ABC, ACB separate) to **eliminate 30% redundancy**.
- Implemented a comprehensive automated regression testing suite using **Selenium** and **Playwright**, significantly **reducing manual effort** and saving approximately **6 hours per week**, enhancing efficiency and code quality.

Web Development
5centsCDN, Remote   *Sep 2023 - Feb 2024*

- Spearheaded the transition of the organization's core website to the modern **Next.js** framework, utilizing **ReactJS, TypeScript, MongoDB, and NodeJS** to enhance application performance and **reduce render time by 40%**.
- Led integration and migration efforts, enforced high code quality via rigorous code reviews, and developed reusable components—enhancing **site responsiveness by 15%** and **delivering the project one week early**.

Development
Samsung Prism, Remote   *Dec 2022 - Jul 2023*

- Authored advanced **cryptographic algorithms (RSA, AES)** using **NodeJS** to ensure secure data transmission.
- Led a **team of five**, fostering **collaboration**, **code reviews**, and **maintaining detailed project meeting notes**.

PROJECTS

- **ScanIt: Full-Stack Development** — A modular **QR code-based restaurant system** enabling real-time order tracking, group table ordering, and unified billing to reduce waiter dependency and streamline operations.
  Technology: Next.js, ReactJS, NodeJS, MongoDB, Tailwind, Redux, Typescript, Git, Github Try it!
- **StockSage: Full-Stack Development**, **The Ultimate Trading Hub** with an intuitive user interface. It integrates Upstox accounts and processes 15 years of historical data from **AlphaVantage** to predict the future stock prices.
  Technology: Next.js, ReactJS, Tailwind, TypeScript, MongoDB, Upstox API, Python, Git GitHub
- **Chess Game: Full Stack Development**, **Unleashing my inner grandmaster**, implementing key functionalities, efficiently handling over 59 billion complex game states with interactive UI and robust state management.
  Technology: HTML, CSS, ReactJS, Javascript, Git, Github Try it!

EDUCATION

Visvesvaraya Technological University	**Bangalore, Karntaka, India**
*Bachelor of Engineering - CSE (CGPA - **9.10/10**)*	*Dec 2020 - Jun 2024*
ISC - St. Joseph's School, Bhaktinagar	**Siliguri, West Bengal, India**
*Science (Percentage - **90%**)*	*Apr 2019 - Mar 2020*

ACHIEVEMENTS

Certificate of Excellence - Internship in Samsung Prism. Link	*2023*
Awarded 1st Prize - College's Open Technology Day for developing an AR Video Controller. Link	*2022*
Runner-up – Department-level College Competition for developing a Football League System. Link	*2022*
Operation Lead - Under25 CIT	2022
Team Lead - Samsung Prism	2022