GAURAV RAKESH SINHA

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EDUCATION

Northeastern University, Boston, MA | **GPA: 3.704**   **Expected May 2025**
Master of Science in Software Engineering Systems
Relevant courses: Object Oriented Design, Web Design and User Experience, Program Structure and Algorithms.

Mumbai University, Mumbai, India   **June 2021**
Bachelor of Engineering in Electronics and Telecommunication
Relevant courses: Object Oriented Programming, Database Management System.

SKILLS

Programming Languages: Java, Python, C.
Web Technologies: JavaScript ES5 ES6, jQuery, TypeScript, REST API, GraphQL, HTML, CSS, SASS.
Frameworks and Libraries: ReactJS, Next.js, Node.js, Angular, Express, Redux, Django, Chakra UI, Tailwind, Bcrypt.
Database: MySQL, MongoDB Compass, MongoDB Atlas, PostgreSQL.
Software Tools: IntelliJ Idea, Visual Studio Code, Postman, Jupyter, Android Studio.
Other Tools: GitHub, Git, VMware vCenter, VMware Horizon, VMware Workspace One, DEM,

WORK EXPERIENCE

Tata Consultancy Services – Mumbai, India

System Administrator (Virtual Desktop Infrastructure Production Support)   **July 2023**
- Deployed 800 dedicated Virtual Desktops for Robotics users on VMware Horizon, integrating vCenter server. Aligned with Client's specs for seamless operation of bots.
- Enhanced user experience with upgrades to VMware virtual appliances (Horizon 8.4, vCenter 7.0.3 e, and Horizon agent), reducing bandwidth usage by 30% and ensuring security compliance for audits.
- Engaged stakeholders in an extensive VDI disaster recovery drill, guaranteeing readiness of both primary and DR infrastructures, minimizing downtime, and ensuring uninterrupted operations.

Assistant System Engineer Trainee (Virtual Desktop Infrastructure Production Support)   **July 2022**
- Responsible for upkeep of 70+ production and DR servers, hosting SQL, Workspace One, DEM, DHCP, and more. Ensuring peak performance by promptly applying OS patches.
- Led the administration of an intricate VDI setup, overseeing 12 vCenter servers, 28 Horizon Connection Servers, 12 App Volumes, and 4 DEMs. My proficiency significantly improved its reliability and efficiency.

SOFTWARE PROJECTS

Present   **(**Next.js, Redux, React DND, REST APIs, MongoDB, TypeScript**)**
- Designed and developed end-to-end web application which includes User Interface and REST APIs using **Next.js** that allow users to interactively create animation-based presentations. Live at https://present-self.vercel.app/landing
- Achieved a 20% reduction in latency for the web application by optimizing the React codebase with **SOLID** principles during recursive slide rendering.
- Maximized application scalability by 30% with **Redux**, enhancing the streamlined storage of element states on slides and presentations.
- Integrated **React DND** for smooth slide and element reordering, showcasing expertise in complex UI interactions.
- Incorporated **MongoDB Atlas** for data storage, leading to a 40% improvement in data retrieval speed.

Financial Budget Tracking Application   **(**React, Java, Java SpringBoot, Java Swing, MySQL*)*
- Engineered a cutting-edge expense-sharing application employing Java SpringBoot, Java, React, and MySQL.
- Crafted RESTful services using Java **SpringBoot** for user authentication, group management, and simplified debt tracking, realizing a 30% improvement in overall responsiveness, ensuring scalability for increased user demands.
- Assembled Java **Swing** for in-application calculations, leading to a 15% enhancement in computational efficiency.
- Implemented **React** for a dynamic User Interface and to enable real-time updates, contributing to a 25% improvement in user engagement.
- Utilized **MySQL** for robust and efficient data storage, facilitating 25% reduction in data access times for expense tracking, group management, and real-time updates.