RUTUJA GHOGARE

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SUMMARY

Software Engineer with over 3 years of professional and hands-on experience as a software developer, passionate about full-stack web development. I am Proficient in Python, Java, JavaScript, SQL, and NoSQL, with expertise in HTML, CSS, React, Node.js, and cloud technologies. Dedicated to creating innovative solutions that enhance user experiences and streamline operations.

EDUCATION

NORTHEASTERN UNIVERSITY   **Boston, USA**
Master of Science in Information Systems   **Jan 2022 - May 2024**
    Relevant Courses: *Application Engineering and Development, DMDD, UI/UX Design, Web Design, Data Structures and Algorithms*

UNIVERSITY OF PUNE   **Pune, India**
Bachelor of Engineering in Computer Engineering   **Aug 2018 – Sep 2021**
    Relevant Courses: *Object Oriented Programming, Web Development, Software Engineering, Advanced Data Structures*

SKILLS & OTHER

Languages: Python, Java, JavaScript (ES5/ES6), TypeScript, C, C++, HTML, CSS, JSON, XML
Databases: MySQL, PL/SQL, MS-SQL, MongoDB, PostgreSQL
Frameworks: Tailwind CSS, React.js, Node.js, Express.js, Next.js, Redux, Jupyter Notebook
Cloud/Tools: AWS (EC2, S3, CloudWatch), GCP, Git, Postman, Firebase, Selenium, Figma, REST APIs, Android, Docker, Jira
Certificates: Python Data Structures, Google Cloud Core Infrastructure, Foundations of User Experience Design

WORK EXPERIENCE

IPSERLAB LLC Mountain View, CA
Software Engineer Intern   **Sep 2023 – Dec 2023**
- Created a Quiz generation App via **JavaScript, PERN stack & Java Bandung,** achieving an **80%** user engagement and **40%** daily user boost.
- Optimized interactive quiz dashboards with **React.js & GraphQL** that led to **65%** faster development and improved data retrieval.
- Transitioned web pages from **jQuery** to **React**, enhancing user satisfaction by **75%** through improved flexibility and server optimization.
- Implemented user authentication and third-party **API integration,** securing an **80%** improvement in user adoption and interaction.
- Accelerated development speed by **65%** through collaborative creation of responsive interfaces and efficient data handling via **PostgreSQL.**
- Enhanced UX and system resilience by optimizing **Tomcat servers,** significantly reducing downtime and improving fault tolerance.

HEFSHINE SOFTWARES   **Pune, India**
Full Stack Developer   **Jun 2020 – Dec 2021**
- Developed a finance web app using **Python, React.js,** reaching a **60,000** user base by augmenting **UX** and **application scalability.**
- Reduced **API** response time by **40%** through **RESTful API** development with **Node.js,** significantly improving system responsiveness.
- Achieved **30% s**calability and **25%** cost reduction by applying **AWS EC2 auto-scaling** and optimizing **cloud resource management.**
- Lowered **MySQL** query times by **25%** with **schema optimization,** boosting data retrieval efficiency via database management techniques.
- Automated wealth management processes with **Python,** achieving a **72%** increase in customer satisfaction by enhancing service efficiency.
- Expanded technical expertise in **backend (Python)** and **frontend (React.js)** development, while gaining practical knowledge in **AWS EC2.**

PERENNIAL SYSTEMS   **Pune, India**
Software Engineer   **Mar 2019 – Dec 2019**
- Built 2 e-commerce sites using JS & CSS for front end, Node.js for backend, and MongoDB for data management, elevating site traffic by 25%**.**
- Collaborated with the UX design team for wireframes in Figma, creating intuitive interfaces that improved user interaction and design quality.
- Maximized testing proficiency through hands-on experience with Azure, Jira, and manual methods, elevating project quality assurance.
- Led **React** workshop participation, integrating carousels, filters, resulting in a **30%** increase in user interaction.

ACADEMIC PROJECTS

Image Generation App | MERN Stack | GitHub   **June 2024**
- Developed a full-stack MERN app enabling high-resolution image generation inspired by OpenAI's DALL-E, leveraging **React.js**, **Node.js**, and **MongoDB**.
- Implemented advanced image generation with **OpenAI's API**, efficient storage of **1000+** images using Cloudinary, and enhanced user engagement with community-sharing features, **downloads**, and prompt-based image **search**.

Spotify Clone | React, Next.js, TailwindCSS | GitHub   **May 2024**
- Developed a Spotify Clone using **Next.js**, **React**, **Tailwind**, **Supabase**, PostgreSQL, and Stripe, adding **10+** key features.
- Improved UX by integrating **Stripe** for **100+** subscriptions, adding client-side validation and error handling, streamlining **20+** API routes.

Trader Joe's | MERN Stack | GitHub   **Aug 2023**
- Implemented a Trader Joe's web app using MongoDB, **Express**, **React**, NodeJs, optimized with **Redux** for state management and **REST API.**
- Achieved 15% faster page load times and 70% quicker data handling, with seamless PayPal Express Checkout API integration for payments.

Health Plus Services | Java, Java Swing, MySQL | GitHub   **Oct 2022**
- Constructed a **Java** app with **DBO4** database, enabling seamless patient-hospital interaction, establishing **50+** healthcare services in the Hospital Management System, and enhancing security through API functionality for email verification

Health Insurance Management System | Oracle-PLSQL | GitHub   **Apr 2022**
- Devised a Health Insurance Management System via **Oracle PL_SQL & MySQL Workbench,** focusing on **CRUD** operations which reduced data processing times by **30%,** improved insurance data accessibility by **50%,** and optimized patient history and bills processing by **65%.**

EXTRACURRICULARS AND LEADERSHIP

Instructional Assistant at Northeastern University:
- Demonstrated strong problem-solving skills by ensuring seamless delivery of instructional materials for 10+ professors during university lectures, achieving a 95% issue resolution rate.

Hackathon Organizer and Team Lead:
- Coordinated with professors and led a team of 6 during the InnovateX inter-college hackathon organized by the University of Pune, overseeing event logistics and guiding my group to develop innovative tech solutions.

Publications | Paper :
- Published a paper in IJSREM on an Android app for lawyer-client communication, implementing document encryption (85% security) and integrating live chat with MySQL for efficient data management.