RUTUJA GHOGARE

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EDUCATION

NORTHEASTERN UNIVERSITY — **Boston, USA**
Master of Science in Information Systems — **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, R
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 via **JS & CSS** for front end, **Node.js** for back end and **MongoDB** for data management, elevating site traffic by **25%.**
- Collaborated with **UX design** 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

Blog App | MERN Stack | GitHub — **Jan 2024**
- Leveraged **MongoDB, Express, React, NodeJs,** and **REST API techniques** to create a dynamic Blog app, resulting in a **45%** improvement in data retrieval speed and a **40%** surge in collaborative content creation, enhancing the user experience.

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

Customer Care | Python, Django, JavaScript | GitHub — **Feb 2023**
- Constructed a consumer services app with **Python, Django, JavaScript, HTML, CSS,** and **Bootstrap,** which led to a **30%** decrease in response time and a **65%** increase in customer satisfaction through enhanced service requests, real-time tracking, and support.

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%.**

EXTRA CURRICULARS

- Delivered exceptional technical support to students and Professors as a **Customer Experience Technician at Northeastern University,** resolving technical difficulties with a **95%** issue resolution rate.
- Demonstrated strong problem-solving skills as an **Instructional Assistant at Northeastern University** by ensuring seamless delivery of instructional materials for 10+ professors during university lectures, achieving a **95%** issue resolution rate.