

RUTUJA GHOGARE

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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%** scalability 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

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.

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.

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

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.
- Professional Affiliations:** Google Developer Student Club, Grace Hopper (GHC 23 Attendee - virtual), Girls Who Code