Rinki Kundu

+1 (470)-301-7492 | kundu.rin@northeastern.edu | LinkedIn | Github |Portfolio

EDUCATION

Northeastern University, USA, Master of Science, Computer Software Engineering — Sep 2022 - Dec 2024
Coursework: Data structure and algorithm, Web development, User interface and user experience

Maharshi Dayanand University, **India,** Bachelor of Engineering, Computer Science — Jun 2017 - May 2021
Coursework: Design and Analysis of Algorithms, Object oriented programming using C++

PROFESSIONAL EXPERIENCE

Philips | Software Engineer | USA — Jan 2024 - Aug 2024

- Developed interactive **APC (Access point controller)** web interface using **React.js** for real-time device monitoring, improving functionality and user experience which resulted in **20%** reduction in troubleshooting time
- Implemented stateless authentication using **JSON Web Tokens (JWT)** with **Node.js** and **TypeScript**, streamlining authentication process and reducing login-related issue by **15%**
- Spearheaded collaboration with **QA** team, identified and resolved **10+** critical bugs in APC web interface using **Azure DevOps** for test case management, resulting in **30%** increased application stability
- Contributed to **Agile** practices by participating in sprint planning and daily stand-ups, fostering cross-team alignment on project objectives to enhance collaboration and ensure timely delivery of key milestones

Tata Consultancy Services | Associate Software Engineer | India — Sep 2021 - Aug 2022

- Designed responsive **single-page application (SPA)** for Car Rental System using **React.js**, achieving 95% design accuracy and boosting user satisfaction through streamlined navigation
- Engineered comprehensive authentication systems via **RESTful APIs**, providing secure access control for users and handled hundreds of concurrent login requests without performance degradation
- Configured **MongoDB** database schemas for car rental system, ensuring efficient data storage and retrieval for functionalities such as vehicle inventory management and user profiles, achieving **15%** boost in query performance
- Achieved **40%** reduction in post-deployment bugs by implementing **test-driven development (TDD)** approach, which strengthened overall software quality and stability
- Engaged in full software development lifecycle, from gathering requirements to design, development, and testing, ensuring solutions adhered to **Software Requirement Specifications (SRS)**

TECHNICAL SKILLS

Programming Languages:	Python, C++, JavaScript, TypeScript, SQL, shell script
Web Technologies:	HTML, CSS, ReactJs, Bootstrap, Restful API, Redux, NodeJs, ExpressJs, NextJs, Ajax, jQuery
Database:	MySQL, PostgreSQL, MongoDB
Tools:	MS Power Automate, Azure DevOps, GitHub, ServiceNow, Firebase, Postman

PROJECTS

Personal Portfolio [Link] [React.js, Tailwind CSS, Framer motion]: — Jan 2024 - Feb 2024

- Architected **React.js** for the frontend to build a responsive personal portfolio, showcasing web development and design skills through curated collection of experiences and projects
- Employed **Tailwind CSS** and **Framer Motion** to design visually appealing and responsive user interface, incorporating utility-first styling for rapid development and animations that elevated user engagement and interactivity across devices

Healthcare Blogging Website [Link] [React.js, MongoDB, Node.js, Express, TypeScript]: — Sep 2023 - Dec 2023

- Crafted responsive user interface using **React.js**, ensuring seamless navigation and consistent experience across devices, which improved user engagement for healthcare blogging platform
- Orchestrated backend with **Node.js** and **Express.js** to streamline blog content processing, incorporating secure user authentication and authorization systems to strengthen data security and **API** interactions

Image Steganography [Link] [Python, OpenCV, PIL, Jupyter Notebook]: — Mar 2023 - Jun 2023

- Created secure image steganography solution in **Python** by utilizing **OpenCV and PIL libraries** to embed hidden data within images, demonstrating proficiency in image processing techniques
- Implemented **Least Significant Bit (LSB)** technique to ensure data integrity and confidentiality, allowing for reliable and secure data integration within images