Rinki Kundu

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EDUCATION

Northeastern University, Boston, MA, 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, **Rohtak, 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 |Boston, MA   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 issues by **15%**
- Spearheaded collaboration with QA team and developers, identified and resolved **10+** critical bugs in APC web interface using **Azure DevOps** for test case management, which resulted in **30%** increase in application stability
- Authored **unit tests with Jest** for key APC web components, boosted code coverage by **25%** and ensured early issue detection
- Contributed to **Agile** practices by participating in sprint planning and daily stand-ups, fostering cross-team alignment on project objectives to ensure timely delivery of key milestones

Tata Consultancy Services | Associate Software Engineer |New Delhi   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**, provided 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
- Conducted app testing via **Postman**, ensuring rigorous validation of features with **97%** defect detection rate before deployment
- Engaged in full **software development lifecycle** within team, collaborating with stakeholders to gather requirements and design solutions, mitigated project risks by 10% through testing and adhered to **Software Requirement Specifications (SRS)**

TECHNICAL SKILLS

Programming Languages & Database:	Python, C++, JavaScript, TypeScript, shell script, MySQL, PostgreSQL, MongoDB
Web Technologies:	HTML, CSS, ReactJs, Bootstrap, Restful API, Redux, NodeJs, ExpressJs, NextJs, Ajax, jQuery
DevOps/Cloud Tools:	Azure DevOps, GitHub, Amazon web services, Vercel, render
External Tools:	Firebase, Postman, ServiceNow, MS Power Automate, Material-UI, Materialize CSS
Certifications:	AWS Cloud Practitioner (Link)
Operating systems:	Windows, Linux, Mac OS

LEADERSHIP EXPERIENCE

Northeastern University | Application Engineer | USA   Jan 2023 – Present
- Constructed **JavaScript**-based web solution alongside cross-functional teams, streamlined prompt retrieval process for student applications, cutting processing time by **50%**, and improving efficiency for managing over **150+** prompts
- Leveraged **Salesforce** to manage 100+ student inquiries, increasing response efficiency by 30%

PROJECTS

Personal Portfolio [Link] [React.js, Tailwind CSS, Framer Motion]:   Jan 2024 - Feb 2024
- Architected frontend of personal portfolio using **React.js** to create a responsive and user-friendly experience
- Employed **Tailwind CSS** and **Framer Motion** to design visually appealing and responsive user interface
- Launched the application on Vercel, enhancing accessibility and optimizing performance

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
- Orchestrated backend using **Node.js** and **Express.js** to streamline blog content processing and enhance **API** interactions
- Incorporated secure user authentication and authorization systems using **Firebase** to strengthen data security