

RONAJ PRADHAN

605-728-7633, ronaj.pradhan@gmail.com
<https://www.linkedin.com/in/ronajpradhan/>

PROFESSIONAL EXPERIENCE

University of South Dakota

August 2022 - December 2023

Graduate Research Assistant

- Conducted research to identify potential Tuberculosis in chest X-ray medical images using deep learning models of graph neural network, resulting in an improved AUC score of 6%, published in conference proceedings of Rtip2R 2023.
- Devised a framework to transform medical image data into super-pixel images and encoded this data into a graph dataset which reduced training time by approximately 85%.

Upaya Technologies Pvt. Ltd

August 2020 - August 2022

Frontend Software Developer

- Maintained landing pages related to e-commerce and network service providers using React and Redux along with Bootstrap, SASS for Cascading Style Sheets (CSS) resulting in a 30% increase in user engagement of website as measured by Google Analytics.
- Developed responsive mobile first user interface, ensuring a seamless user experience across mobile and desktop devices ensuring cross-browser compatibility that cut development time by 60%.
- Transformed design mockups into complete front-end web applications, resulting in 7-9 new clients and revenue generation of \$75,000 in 6 months.
- Optimized codebase by testing, minimizing development dependencies/packages/images, implementing lazy loading, removing CDN's and memory leaks which decreased number of DOM updates up to 25%.
- Led the migration from JavaScript to TypeScript, improving code readability which reduced debugging time by 12% and observed increased runtime performance of 8%.

Upaya Technologies Pvt. Ltd

January 2019 - August 2020

Software Developer

- Executed business logic and maintained role-based employee's management portal using Java, Spring boot backed by SQL Server 2018.
- Implemented JUnit 5, Mockito and Log4j to conduct comprehensive testing of each component, guaranteeing proper functionality and achieving 95% test coverage.
- Researched and implemented proof of concepts using services and technologies new to the company and assisted to evaluate potential future uses within the company.
- Spearheaded implementation of RESTful APIs for efficient data retrieval utilizing spring data, enabling real-time updates, and leveraging OAuth to reinforce the security of the application.

SKILLS

- Programming Language: JavaScript, TypeScript, Java, Python
- Database Management: MySQL, SQL, Google Firebase, MongoDB
- Web Development: HTML5, CSS3, SASS, Tailwind, React-Query, jQuery, React.js, Redux, JSON, Node.js, REST API, Jest
- Java Technologies: Hibernate, JDBC, Spring MVC, Spring Security, JPA, Spring-boot, XML, JUnit
- SDLC: Waterfall, SCRUM, Agile
- Other Tools / Technology: Webpack, Postman, Maven, JWT, OAuth2, JIRA, Figma, AWS, Browser Dev Tools, Git, GitHub, Swagger, Photoshop, WordPress

PROJECTS

- **Clothing E-commerce Web App** (*Web Development, User Interface, User Experience*): Implemented a mobile first responsive design which showcases product catalog, landing page, checkout/payment, and authentication for user registration. *Tech: Typescript, React, Redux, SCSS, Google (Firebase)*. Link: [GitHub](#) | [Live](#)
- **Security Based Employees Management System** (*Web Development, Security, Authentication*): Developed a role-based access control system with spring security for employee portal/profiles executed through RESTful APIs, and AJAX to fetch and store data. *Tech: Java, Spring-boot, React, Bootstrap, MySQL, JavaScript*. Link: [GitHub](#)
- **Sleek Fits** (*Server-side-rendering, Web Platform*): Created an E-commerce platform complete with real credit checkout, users can search, sell, add to cart and checkout their favorite items. The app has six main models which are relational and showcase server-side bits including authentication, permissions, sending email, uploading images, and charging credit cards. *Tech: Next.js, Apollo Client, Jest, KeyStone, GraphQL, React, Styled Component*. Link: [GitHub](#)

EDUCATION

University of South Dakota <i>Master of Science in Computer Science</i>	Vermillion, SD, USA August 2022 - December 2023
Tribhuvan University <i>Bachelors of Electronics and Communication Engineering</i>	Kathmandu, Nepal August 2014 - December 2018