RONAJ PRADHAN

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LinkedIn

PROFESSIONAL EXPERIENCE

Enigge InfoTech LLC   **February 2024 - Present**
Full-stack Software Engineer

- Built a scalable RESTful API using Express.js and PostgreSQL, serving 50+ endpoints and handling 1000+ requests per second.
- Maintained and enhanced e-commerce landing pages using React and Redux along with Tailwind CSS, SASS for Cascading Style Sheets (CSS), achieving a 30% increase in user engagement (Google Analytics).
- Led software development, testing, and deployment of applications on AWS EC2 instances, optimizing multistage CI/CD pipelines to automate build processes and API publishing.
- Optimized codebase by testing, minimizing dependencies/packages/images, implementing lazy loading, and eliminating memory leaks, resulting in a 25% reduction in DOM updates.

University of South Dakota   **August 2022 - December 2023**
Graduate Research Assistant

- Developed and applied deep learning models using Graph Neural Networks to identify potential Tuberculosis in chest X-ray images, leading to a 6% improvement in AUC score; findings published in the conference proceedings of Rtip2R 2023.
- Engineered a framework to convert medical images into super-pixel representations and encode them into a graph dataset, reducing training time by approximately 85%.

Upaya Technologies Pvt. Ltd   **January 2019 - August 2022**
Full-stack Developer

- Managed business logic and maintained/documented legacy projects related to Java, Spring boot backed by SQL Server 2018.
- Spearheaded implementation of RESTful APIs for data retrieval utilizing spring data, enabling real-time updates, and leveraging OAuth to reinforce the security.
- Developed responsive mobile first user interface, ensuring a seamless user experience across mobile and desktop devices ensuring cross-browser compatibility.
- Transformed design mockups into complete front-end web applications, resulting in 7-9 new clients and generating $75,000 in revenue within 6 months.
- Migrated JavaScript to TypeScript, improving code reliability which reduced debugging time by 12%.

SKILLS

- Programming Language: JavaScript, TypeScript, Java, Python
- Database Management: MySQL, SQL, Google Firebase, MongoDB
- Web Development: HTML, CSS, SASS, Tailwind, jQuery, React.js, Redux, Next.js, Node.js, GraphQL, Jest
- AI Development: TensorFlow, Keras, Pandas, OpenCV, PyTorch, Scikit-learn, NumPy
- Other Tools: Postman, Maven, JWT, OAuth2, JIRA, Figma, AWS, Browser Dev Tools, Docker, Git, GitHub, Swagger, Photoshop, WordPress, Webpack

CERTIFICATION

- ScrumMaster Certified (SMC), International Scrum Institute, May 2024

EDUCATION

University of South Dakota   **Vermillion, SD, USA**
Master of Science in Computer Science   **August 2022 - December 2023**

PROJECTS

- **Clothing E-commerce Web App**: 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**: 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

- **Super-pixels in Graph Neural Network:** Analyzed and transformed Chest X-ray images into various numbers of superpixels and Region Adjacency Graphs (RAGs) to obtain the improved classification accuracy of Tuberculosis positive and negative images with limited datasets. *Tech: Python, Jupyter Notebook, Torchvision, Pytorch, SciPy, Tensorboard, NetworkX, DGL. Link*: GitHub

- **Sleek Fits:** 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