

Ishan Dahal

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EDUCATION

University of Michigan

MS in Computer and Information Science

Dearborn, MI

Graduated: May, 2024

- **Relevant Coursework:** Software Engineering, Artificial Intelligence, Cloud Computing, Algorithms, Database.

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant and Tutor

University of Michigan

01/2023 - 05/2024

- Increased student engagement and comprehension in AI, Digital Logic, and C++ by delivering lectures and tutoring sessions, measured by a 25% weekly rise in participation through updated materials and interactive learning.
- Led a team to revamp the Dept. of Academic Success website, ensuring clear information delivery and aesthetic balance by optimizing text-to-image ratio, applying a 60/30/10 color scheme, using Figma, HTML, and CSS.
- Organized hands-on programming bootcamps at the start of each semester to introduce undergraduates to clean coding practices, facilitating better coding standards and smoother course progress.

Front-End Developer

SeeLogic International

09/2021 - 07/2022

- Led front-end development for Murray Uniform's e-commerce web application, contributing to a 500% increase in daily users by implementing dynamic user interfaces with React, Redux, and Tailwind CSS.
- Achieved a 40% reduction in page load speeds by revamping monolithic web applications with React.js and Redux, while enhancing developer experience (DX), user experience (UX), and accessibility through best development practices.
- Executed on-time and on-budget project delivery by effectively communicating timelines, progress, and objectives while practicing Scrum Agile methodologies and collaborating with cross-functional teams.

Software Engineer

InfoDevelopers

10/2019 - 08/2021

- Designed and developed the multi-tenant front-end architecture for the govTech web application, enabling use across 5 different business units with distinct data and configurations by leveraging React.js codebase sharing development.
- Achieved a 25% reduction in project development time, measured by faster deployments and fewer errors, by implementing CI/CD systems with Jenkins and Git for version control, streamlining development and testing processes.
- Streamlined data processing and visualization, reflected in faster development and deployment, by leveraging D3 and Chart.js to build a system for analyzing and presenting complex datasets effectively.
- Improved design quality and team collaboration measured by effective alignment with user needs and business goals by participating in weekly design & development reviews for better coordination between design and development teams.

Junior UI/UX Developer

Treeleaf Technology

06/2018 - 09/2019

- Developed a real-time analytics dashboard, demonstrated by its effectiveness in managing large volumes of asynchronous data to facilitate AI-powered system monitoring and updates, by using Express and ReactJS.
- Designed brochures, flyers, and visually compelling promotional posts, demonstrated by increased social reach and effective launch and promotion of the "VIXX: AI-based vehicle assistant system by using Figma for brochures and flyers.
- Conducted user research and usability testing to gain actionable insights that improved user experience and increased engagement in the GovTech vehicle management system, by applying rigorous TDD practices.
- Efficiently managed database operations processes, ensuring data integrity, security, and availability while troubleshooting and resolving issues as needed.

PROJECT

- Leverage deep learning model LSTM-RNN to make stock prediction considering technical parameters like RSI.
- Built web application to simulate LinkedIn using React, Spring Framework, MySQL.

TECHNICAL SKILL

Front-End: React, TypeScript, Next.js, Redux, MaterialUI, Tailwind CSS, Jest, D3, gRPC-web, Webpack, RxJS, Vite, Figma

Back-End: Node, Express.js, Python, Java

Databases: MySQL, PostgreSQL, MongoDB

DevOps: Azure DevOps, Jenkins, GitHub Actions

Tools & Other: Atlassian Jira, Slack, Bitbucket, Postman, GCP