Ishan Dahal

Dearborn, MI 48126 | (313) 231-4005 | ishan.dahal72@gmail.com | linkedin.com/in/ishandahal | github.com/ishan72 | ishan72.github.io/portfolio/

EDUCATION

University of Michigan- Dearborn **Dearborn, MI 48128** **08/2022 – 05/2024**
Master's Degree, Computer and Information Science
Relevant Coursework: Software Engineering, Artificial Intelligence, Cloud Computing, Algorithms, Database.

TECHNICAL SKILL

Front-End: React, TypeScript, Next.js, Redux, CSS, WebRTC, HTML, D3, gRPC-web, Webpack, WCAG, Vite, Figma
Back-End: Node, Express.js, Java, Spring Framework, JPA, JDBC, Spring Boot, C#, .NET Framework, ASP.NET
Databases: MySQL, PostgreSQL, MongoDB
DevOps: Azure DevOps, Jenkins, GitHub Actions
Tools & Other: Atlassian Jira, Slack, Bitbucket, Postman, GCP

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant / 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 & aesthetic balance by optimizing text-to-image ratio, applying a 60/30/10 color scheme using Figma, HTML, & 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 & Redux, while enhancing developer experience (DX), user experience (UX), & 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 **08/2019 – 08/2021**
- Engineered a scalable multi-tenant architecture for a web application, enhancing system performance & data management across multiple tenants; implementation led to a significant reduction in maintenance overhead.
- 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.
- Efficiently managed APIs and database operations processes, ensuring data integrity, security, and availability through real-time ingestion while troubleshooting and resolving issues as needed.

PROJECT

Stock Predictor January 2024 - May 2024
- Developed a deep-learning model combining **LSTM-RNN** and **GRU** to predict stock price based on momentum oscillators like RSI, Stoch with prediction accuracy of 72%. Used libraries like numpy, pandas, matplotlib, tensorflow.

ERStreamline Web Application August 2023 - December 2023
- Crafted and implemented a specialized web application and data visualization interface, optimizing Emergency Room operations by simplifying infrastructure management, and billing procedures.

A cloud-based large-scale distributed video analysis system January 2023 - April 2023
- Developed a video analysis system leveraging Google Cloud Services such as bucket, bigQuery, dataflow, Video Intelligence API, pub/sub, capable of extracting the information of the objects present in the video.