

Harnish Savadia

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EDUCATION

Rochester Institute of Technology

Master of Science in Computer Science

Rochester, New York

08/2021 - 12/2024 (expected)

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, JavaScript, C#, HTML5, CSS3
- **Frameworks & Libraries:** React, NodeJS, .NET, Angular, NextJS, TailWindCSS, ExpressJS, JQuery, Scikit-Learn, Keras, NumPy, Pandas, Matplotlib, OAuth, xUnit
- **Database:** MySQL, MongoDB, PostgreSQL, GraphQL(Neo4j), XML, XSLT
- **DevOps & Tools:** Amazon Web Services(AWS), Microsoft Azure, Google Cloud, Swagger, Firebase, Postman, Git, SQL Server Management System, MacOS/Windows/Linux

WORK EXPERIENCE & INTERNSHIPS

Ecolab

Software Engineer Co-op

08/2023 - 08/2024

Texas, USA

Prep N Print Flex - Xamarin / React Native:

- Developed, maintained, and tested the C# .Net Back-end for the Prep N Print application, ensuring robust and efficient server-side functionality. Resolved Bugs and added features to Xamarin Front-end.
- Optimized data upload by implementing Bulk Insert and Update Queries, reducing upload times to under 3 minutes, preventing timeouts, and simultaneously cutting processing costs on 40 cores for enhanced user experience.
- Developed screens and navigation for the React Native version of the app, and led the migration of the legacy application to a monolithic architecture in the Digital Kitchen project, improving scalability and data consistency

Remote Temperature Monitoring:

- Implemented and tested various API endpoints for Ecolab's RTM webpage, integrating ThermoWork's NODE via an MQTT server connected to Azure using Event Grids. Created Azure Functions to interact with the database for storing and verifying device configurations and statuses for alerts at every 15-mins interval, and set up Twilio service for alert messaging.
- Developed a React Native frontend with a Devices Dashboard, Alert History, and Temperature History Chart, showing temperature readings and deviations. Collaborated in planning and implementing of location-based and user-specific access controls for enhanced security

Exosys Data Labs

Full Stack Developer Intern

05/2020 - 10/2020

Bangalore, India

- Produced a complete Online Video Conferencing Web App using NodeJS and WebRTC to set-up peer-to-peer communication tested on 3 cross-platform browsers. Integrated features such as User Authorization, Screen Sharing, and Multiple Peer Connection Interface that could support up to 50 active users.

Larsen & Toubro Realty

Data Engineer Intern

06/2019 - 09/2019

Mumbai, India

- Implemented an Employee/Customer Enquiry App with an interface performing database communication with customary queries segregated over 10+ domains using PowerBI and Tableau. Increased access of over 2500+ employees under different departments.

PROJECTS

IMDB Dataset Analysis - github.com/harnish7576/IMDB-Dataset-Analysis

01/2022 - 05/2022

- Created relational databases and non-relational database schemas as part of design process. Produced ETL mappings on 40GBS of data using JDBC into SQL and Mongo Java driver into MongoDB in accordance with schema requirements.
- Applied candidate key discovery, canonical cover search, 3NF Normalization, Association mining using apriori and KMeans clustering to achieve SSE of 128.486.

House-Of-Spices Restaurant Portfolio - house-of-spices-restaurant-website.vercel.app/

12/2022 - 01/2023

- Built a React portfolio web-app with lifestyle hooks to enhance response time in low band-width areas, reducing load time by over 50% and designed a theme system to optimize mobile responsiveness, reaching 75% more target stakeholders.

Wordle Wordsmith - github.com/harnish7576/find-first-3-wordle-words

02/2023 - 05/2023

- Engineered a program with a cost function and search algorithm to identify three optimal starting words for the Wordle game, analyzing 15 unique letters
- Executed the program to load and analyze a dictionary of words, selecting the most suitable options based on the custom cost function.

CryptoCurrency Dashboard & Live News - github.com/harnish7576/CryptoCurrency-Dashboard

06/2023 - 07/2023

- Developed a dynamic cryptocurrency dashboard with React, providing real-time currency conversion, live news updates, and exchange rate display from 3 different sources. Implemented secure API communication and backend integration
- Collaborated with RapidAPI's Alpha Vantage and Crypto News Live APIs, enabling dynamic content refresh and achieving a 20% increase in user engagement.