

Harnish Savadia

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EDUCATION

Rochester Institute of Technology

Master of Science in Computer Science, Advanced Certification in Big Data

Rochester, New York

08/2021 – 12/2024

University of Mumbai

Bachelor of Engineering in Computer Science

Mumbai, India

08/2017 – 05/2021

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, JavaScript, C#, HTML5, CSS3
- **Frameworks & Libraries:** React, NodeJS, .NET, Angular, TypeScript, TailWindCSS, ExpressJS, JQuery, Scikit-Learn, Keras, NumPy, Pandas, Matplotlib, OAuth, xUnit, Jest
- **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

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.
- Constructed 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 validated 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, triggering **Twilio** service to notify users.
- Developed a **React Native Front-end** with a Devices Dashboard, Alert History, and Temperature History Chart, showing temperature readings and deviations. Collaborated in planning and implementation of **location-based** and **user-specific** access controls for enhanced security.

Exposys Data Labs

Full Stack Developer Intern

05/2020 – 10/2020

Bangalore, India

- Collaborated on building an online **video conferencing web-app** using **NodeJS** and **WebRTC** to set-up **peer-to-peer** communication evaluated on 3 cross-platform browsers. Integrated features such as User Authorization, Screen Sharing, and **Multiple Peer** Connection Interface, supporting and testing 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 **device 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 **custom 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 cost function.

Cryptocurrency Dashboard & LiveNews - github.com/harnish7576/CryptoCurrency-Dashboard

06/2023 – 07/2023

- A dynamic cryptocurrency dashboard using **React**, providing **real-time** currency conversion, **live news** updates, and exchange rate display from 3 different sources. Implemented secure API communication and backend integration.