

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 - Product:

- Developed and maintained the **C# .NET Core** Web API endpoints with Entity Framework, achieving 99.9% uptime for Prep N Print's business-critical print management system, serving **20K+** daily requests. Resolved Bugs and added features to **Xamarin** Front-end.
- Optimized data upload performance by implementing bulk insert and update queries, **reducing processing times** to under **3 minutes** and **eliminating timeouts**. Improved resource utilization across **40 cores**, resulting in **reduced processing costs** and enhanced user experience.
- Constructed key screens and navigation flows for the **React Native** app using **TypeScript** and **Zustand**. Executed a strategic **monolithic migration** using **strangler fig** pattern in the Digital Kitchen project, enhancing scalability and data integrity.

Remote Temperature Monitoring - Product:

- Designed REST APIs for Ecolab's RTM application, integrating IoT devices through **MQTT protocol** and **Azure Event Grid**. Developed **Azure Functions** for database operations and device monitoring, implementing a **15-minute polling** system with **Twilio** SMS notifications for critical alerts.
- Architected a **React Native** application featuring a Devices Dashboard with temperature monitoring, historical alerts, and time-series visualization. Implemented **location-based** and **role-based(RBAC)** access controls for enhanced security.

Exposys Data Labs

Full Stack Developer Intern

05/2020 – 7/2020

Bangalore, India

- Contributed to an existing **WebRTC**-based video conferencing platform, implementing **JWT authentication** reducing login failures by **40%**, assisting with **WebSocket signaling** implementation, and conducting cross-browser compatibility testing. Collaborated on debugging peer connection issues and documenting WebRTC session establishment protocols.

Larsen & Toubro Realty

Data Engineer Intern

06/2019 – 09/2019

Mumbai, India

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

Panciugo

Web Developer Intern

01/2019 - 04/2019

Texas, USA

- Refined 2 responsive web applications using **React**, **Redux** state management, and UI component libraries, implementing **lazy loading** and **reusable design patterns** to optimize performance.

PROJECTS

Serverless User Registration WebApp - Github

01/2025

- Engineered a **serverless** registration system using **AWS Lambda**, **DynamoDB**, and **API Gateway**, implementing **IAM role-based access** controls, secure data storage, and performance monitoring through **CloudWatch**.

IMDB Dataset Analysis - Github

05/2022

- Implemented comprehensive **database architecture** utilizing both SQL (**JDBC**) and NoSQL (**MongoDB**) systems, performing advanced data modeling including 3NF normalization, candidate key discovery, and canonical cover analysis, while executing **ETL** operations on **40GB** dataset and applying data mining techniques (Apriori algorithm, K-means clustering with **SSE: 128.486**).

House-Of-Spices Restaurant Portfolio - Website

01/2023

- Architected a responsive **React** portfolio using **S3** for static hosting, **AWS CloudFront CDN** for edge caching and **Route 53** for DNS routing; achieving **50%+** faster load times globally and expanding stakeholder reach by **75%**.

Wordle Wordsmith - Github

05/2023

- Engineered a search algorithm using **custom cost functions** to identify optimal Wordle starting words by analyzing **letter frequencies** across a dictionary dataset, optimizing for **15 unique letters**

CERTIFICATIONS

- **AWS Certified Cloud Practitioner** - 2024