

Maitra Patel

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I am a senior year software engineering student at UM-Dearborn. Seeking a full-time/part-time opportunity to obtain a solid foundation in a corporate environment where my skills & expertise can be well utilized.

EDUCATION

Software Engineering

University of Michigan, Dearborn, MI

09/2016 – 12/2020

GPA: 3.51

Courses

- Computer Science I & II
- Data Structures & Algorithms
- Probability & Statistics
- Computer Networks & Distributed Systems
- Web Technology
- Software Engineering I & II
- Computer Assembly & Organization
- Database Management
- Software Patterns & Architecture
- Discrete Structures I & II

WORK EXPERIENCE

Data Analyst/Intern

NITS Solutions

05/2018 – 07/2018

Novi, MI

NITS Solutions is an expert in client consulting & efficiently managing large chunks of data.

Achievements/Tasks

- Identified data issues in production & assisted my mentor with resolution.
- Summarized Datawarehouse level data and validated with production data.
- Wrote scripts to generate a daily log of problematic data as required.
- Helped the marketing team to catch trends by making an interactive live data visualization model.

ORGANIZATIONS

Circle-K International (Kiwanis)

Community Service Organization

SKILLS

OracleSQL MySQL MongoDB Firebase SQLServer

PHP JavaScript Node.js React.js jQuery

HTML/CSS Ajax Python C/C++ Java

Assembly (Irvine) C# MATLAB (OnRamp Certified)

AWS (Deployment & Server Management) Github/Gitlab

EnterpriseArchitect WinCVS BugZilla

Microsoft Office (Excel, Word, Project) Azure DevOps

Windows/MacOS/Linux Android Studio

PROJECTS

E-Commerce Platform (03/2020 – 03/2020)

- Key features such as add/remove to cart, check-out confirmation, inventory management, and login authentication.

AI Pathfinder Problem (02/2020 – 02/2020)

- The AI agent finds an optimal path using two well-known algorithms. A-Star and DFS respectively. The algorithm can be run on any 4x4 grid with or without blockades.

Weather App (04/2020 – 04/2020)

- The app allows user to check a 5 day forecast of selected city. Weather data is fetched from an API.

Security Breach (07/2018 – 07/2018)

- Optimization problem where the program finds an optimal way to attempt a successful security breach given the locations and angles of the sensors.

Reversi Game Tool (04/2018 – 04/2018)

- This is a helper tool for a game called Reversi. It computes the next best move for a player based on the passed grid.

Cache Memory Management (04/2018 – 04/2018)

- Implementation of both LRU & LFU cache management algorithms for incoming jobs.

Lexical Analyzer Concept (05/2019 – 05/2019)

- A conceptual lexical analyzer which breaks code from an input file into a series of tokens, by removing any white space or comments.

Prefix Calculator (10/2019 – 10/2019)

- This is a prefix calculator implemented using Stacks ADT in Java. It takes any prefix notation and computes the result.

Binary Search Tree Implementation (03/2019 – 03/2019)

- This is a binary search tree implementation for a series of numerical inputs.

Bank Account Management Dashboard (04/2019 – 04/2019)

- Bank account management tool which allows users to perform cash related transactions.
- It's coded using HTML, CSS, PHP and JS.