Nishant Patel

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EDUCATION

BSc(Honours), Computer Science | University of Toronto - Transferred   **Sept, 2018 - Aug 2019**
- Object-Oriented Programming, Data Structures,Theory of Computation, Computer Organization, Linear Algebra
- Entrance Scholarship, Hack the Valley

BSc(Honours), Computer Science | Toronto Metropolitan University (Ryerson University)   **Sept, 2019 - Dec 2024**
- Coursework: Algorithms, Operating Systems, Artificial Intelligence, Database Systems, Computer Networking
- RU Hacks, Intramural Basketball, TMU Algorithms and Coding club, RU Hackerz

EXPERIENCE

Ceridian   Toronto, ON
Human Capital Management Software - Dayforce
Software Engineer Intern - Import API team   **May, 2022 - Dec, 2022**
- Migration of Legacy Import Framework from **SQL** to the **.NET framework**
  - Implemented functionality in a **C#(.NET)** API to validate and import data of **1000s of employees** from **XML** files **concurrently** and saved into a **Microsoft SQL Server** database.
  - Implemented UI functionality for new API endpoints in **React.js** framework and improved user experience for **100s of clients.**
- Collaborated with a **team of 5 developers** to improve **API performance** for acquisition of **Amazon and UPS**.
  - Integrated **OpenTelemetry** into Import API to **create logs, traces, metrics** that quantify runtime of Employee data Import through the API.
  - Used **Jaeger UI** to create graphs for average runtimes for API and transaction times for SQL queries to reveal over **20 entities** that showed sub-optimal performance.
  - Worked on optimizing API and reduced average **import time by 5%** by removing runtime overhead caused by dynamic C# types.

SKILLS

- Python, C#, JavaScript, React, Flask, Pytorch, Matlab, MapReduce, Hadoop, SQL, MSSQL, MongoDB, Node.js, HTML/CSS, Git, YAML
- Postman, Docker, Azure,GitHub, Gitlab, Pytest, Numpy, Linux, Powershell, Bash, Machine Learning, ETL

PROJECTS

2020 US ELECTION PREDICTOR | RU HACKATHON 2020
- Collection and analysis of twitter data on politicians during the 2020 US election with the use of Twitter API and language model in **Python**.
- Collected and analyzed 50,000 tweets concurrently through the Twitter API to generate a numerical representation of opinions on politicians and stored the data in a secure **MySQL** database.
- Presented quantifiable data to users through pie charts and line graphs through a web-application created with **Flask** and **HTML/CSS**.
- Trends generated through the data collected showed over a 92% accuracy compared to election results.

MEME EDITOR   **June, 2021 - July 2021**
- Created and deployed a web-app allowing users to sign up using their emails to edit and store memes easily.
- Developed a RESTful API using the **Flask** framework to **authenticate users** and communicate with the Imgflip API and
- Used the **React.js** Library to create a **user friendly Interface** where users can edit their memes.

PATHFINDER   **Dec, 2022 - Jan, 2023**
- Create a desktop app with **Pygame** to allow users to set blocks and observe **Djikstra's** algorithm while the object finds an optimal path around the blocks set by users.