

# Nishant Patel

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## EDUCATION

**BSc(Honours), Mathematics | 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

Import API team

#### Software Engineer Intern

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.

### Ceridian

Toronto, ON

Developer Experience - Infrastructure

#### Software Engineer Intern

Sept, 2023 - Apr, 2024

- Migrating **Cloud** infrastructure and **CI/CD** pipeline from **Azure** to **Github**
- Working with a small team of developers to improve developer experience through configuration of development tools such as **Docker** and .Net build tools

## SKILLS

- Python, C#, JavaScript, React, Flask, Pytorch, Matlab, 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

June 2020 - Aug 2020

- Collection and analysis of twitter data on politicians during the 2020 US using **Python** data libraries.
- 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 charts on a **Flask** and **React** web-app

### 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.

### PORTFOLIO

July, 2023 - Aug 2023

- Portfolio website created using the **React** library for a responsive and appealing front-end design. Deployed through **github pages** for cost-free deployment. And a Flask API for data manipulation in MongoDB database.