

# Tanish Shah

Software Engineer Interested in ML | Full Stack

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## SKILLS

**Languages:** Python • R • JavaScript • C/C++ • Java • HTML • CSS • Racket

**Technologies:** SQL • Svelte • Express • NodeJS • Flask • MongoDB • Redis • pandas • numpy • Excel

## WORK EXPERIENCE

### The Big Leaf (Management Consulting) - MyPanion and Handlers Projects

Full Stack Software Developer Intern

Remote

Jun 2022 - Sept 2022

- Developed a health care app with a team of 12 members and monitored the progress of the backend team on the Express server API and database management (MyPanion).
- Designed various authentication endpoints with JWTs and third-party services.
- Prepared Mongoose schemas for patients, care providers and general care seekers.
- Wrote a matching algorithm for patients to care providers based on geographical location and tag-based care needs, using Google Maps API for coordinates and measuring distances.
- Redesigned a local event planning business's WordPress website with SvelteKit and added email functionality with NodeMailer.
- Met 100% of client expectations and fixed structure/styling as requested in progress meetings.

### Papa Murphy's Pizza - Crew Member

Pizza Maker

Calgary, AB

Aug 2019 - Aug 2021

- Handled orders via the POS system on the till and assisted customers in item selection from the menu.
- Prepared pizza ingredients in the backhouse and alerted the manager of any potential stock shortages.
- Trained new employees in their responsibilities in the front and back house of the store.

## PROJECTS

### Dexbooru (Anime Image Board) | Personal Project (Full Stack)

SvelteKit, NodeJS, MongoDB, Redis, Bulma, Javascript, HTML, CSS

Remote

May 2022 - Present

- Dexbooru strives to create a better front end and implement machine learning in services for increased automation.
- Designed several API endpoints that handled CRUD operations and caching.
- Implemented a cookie session-based authentication system that validated users on tokens on every page request.
- Created basic UI components and pages, and styled them with Bulma utility classes.

### Virtuagnosis (Disease Prediction) | HawkHacks 2022

Python, Pandas, Flask, Svelte, HTML, CSS

Remote

May 2022

- Designed a KNN-based disease prediction model with a 90% accuracy, using Euclidean distance.
- Preprocessed and cleaned the medical dataset with pandas to eliminate null entries.
- Grouped symptoms with diseases and created unique symptom vectors for each row in the final dataframe.
- Implemented basic GET request endpoints in Flask to call the final prediction function to the algorithm.
- Users can interact with the front end and select all of their relevant symptoms, and instantly get real-time feedback after pressing the prediction button.

### Shopinder (Global Shopping Reminders) | RUHacks 2022

Python, Flask, Svelte, HTML, CSS, Twilio, SMTPLib, BS4, MongoDB, Google OAuth

Remote

May 2022

- Shopinder is a global shopping reminder app that supports online stores, where the user enters product url from store page, and gets information, and then has the option to add an item to the shopping list and be reminded via SMS or email when they want to purchase it.
- Used the BS4 library to web scrape store pages to collect basic product data, and send a JSONified version to the server, so it can be consumed by the front end.
- Stored the shopping lists of users in a simple MongoDB collection and users were authenticated with Google OAuth services.

## EDUCATION

### Data Science - Bachelor of Science

Simon Fraser University

Burnaby, BC

Jan 2022 - Present