Tanish Shah

Software Engineer Interested in ML | Full Stack

GitHub: t-shah02
LinkedIn: Tanish Shah
Website: ShahTanish
Email: tanish_shah@sfu.ca

BACKGROUND

Languages: Python • R • JavaScript • C/C++ • Java • HTML • CSS • Racket
Technologies: SQL • Svelte • Express • NodeJS • Flask • MongoDB • Redis • pandas • numpy • Excel

WORK EXPERIENCE

eWorx Technology - Datasets project   Remote
Backend Data Developer   *Jul 2022 - Sep 2022*
- Rewrote a dataset query engine inspired by SQL in pandas/numpy, that returns an output dataset, given a JSON formatted query sent by a post request on the front end.
- Handled filter queries, column mutation/creation formulas, grouping, aggregate statistic functions, text cleaning operations, and regex specifications.
- Wrote API endpoint documentation, and conclusive tests, and handed production code to the Django developers for future usage.

Papa Murphy's Pizza - Crew Member   Calgary, AB
Pizza Maker   *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

Virtuagnosis (Disease Prediction) | Hawkhacks 2022   Remote
Python, Pandas, Flask, Svelte, HTML, CSS, Kaggle   *May 2022*
- Created a KNN-based disease prediction model with a 90% accuracy, using Euclidean distance.
- Preprocessed, filtered, and performed feature engineering on symptoms of each disease in the dataset.
- Deployed model, with prediction function on an endpoint of Flask server for front-end usage.

Shopinder (Global Shopping Reminders) | RUHacks 2022   Remote
Python, Flask, Svelte, HTML, CSS, Twilio, SMTPLib, BeautifulSoup4, MongoDB, Google OAuth   *May 2022*
- Created a shopping reminder app, which supports SMS and email notifications.
- Web scraped a dozen online stores with BS4, to get product info in JSON format for the back-end.
- Stored user's item lists inside MongoDB collections and utilized Twilio/SMTP for reminder procedures.

UniMeetups | CalgaryHacks 2022   Remote
Python, Flask, Bootstrap 5, Jinja, Repl.it DB, Google Maps API, HTML, CSS   *Feb 2022*
- UniMeetups is a social app that connects students based on common interests, schedules and school location.
- Created API endpoints for CRUD operations, cookie based session authentication, public views, and geographical functions for discovering potential user matches (based on distance/tag-based interests).
- Assisted front-end team members on the structure of POST, GET requests on the server and how to feed response data into the rendered HTML templates, parsed by the Jinja engine.
- Learned about the role of a web API in front to back end interaction via HTTP protocols, communication skills required in collaborative software development, and garnered specialized interest within backend dev.

Echidna.py | Discord Bot   Remote
Python, Pycord, asyncio, requests, BeautifulSoup4, MySQL, Heroku, Pillow   *Sep 2021 - May 2022*
- Echidna.py is a general-purpose bot, written using the Pycord fork of discord.py
- Learned about HTTP requests, web scraping, asynchronous programming, databases and version control with Git.
- Coded various math, image processing, anime, web and miscellaneous commands and hosted on Heroku.

Tunes.Java | Desktop Music Player   Remote
Java, Swing, Java FX, org.json   *Sep 2021 - Dec 2021*
- A music player that supports mp3 files, playlist creation, removal and deletions.
- Utilized org.json to serialize objects into a JSON format for file I/O, to maintain app persistence.
- Learned about OOP paradigms, test driven development and using UML diagrams to show class relationships.

EDUCATION

Data Science - Bachelor of Science   Burnaby, BC
Simon Fraser University   *2021 - 2026*