SOBAN FARHAN

Backend Developer

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TECHNOLOGY STACK

- C#
- React & Next
- Node.js
- Docker
- Python
- Django & Flask
- SQL & NoSQL
- Design Patterns
- JavaScript & TypeScript
- .NET/ASP Core
- GitHub & Bitbucket
- Agile Methodology

EDUCATION

Durham College, School of Business, IT & Management (BITM) **September 2017 – April 2020**

Oshawa, Ontario

- Computer Programming and Analysis program.
- Ontario College Advanced Diploma.
- Specialized in Software, Database, and Web Development.
- Earned Honor Roll throughout the 3 years with higher than 4.0 out of 5.0 GPA.

PROFESSIONAL EXPERIENCE

Re:Sound Music Licensing, Toronto, ON

Software Developer **May 2021 – Present**

As a developer, I am fortunate enough to be a part of a team responsible for maintaining our critical applications: **Re:Think** - A cloud-based solution built using Salesforce, **E10** - A **Restful API** utilized by other divisions for vendor, invoice, and payment-related tasks built using **C#** and **.NET Core**, and **ALLIANT** – An application designed to clean, transform, and analyze data using **Python** and **Django**. My contributions include the following:

- Participated in the transition of the former **.NET** WPF (Windows Presentation Foundation) application, **OPUS** to **Re:Think**. This involved working closely with cross-functional teams to ensure seamless integration.
- Led a three-part testing sync for **E10**. The scope consisted of creating **50,000** users and **300,000** invoices to identify a slow response time within the old structure.
- Assisted in the performance improvement of **E10** by removing the heavy use of **ORM** and alternating the use of **stored procedures**. This resulted in an average of **8-9s** requests to be completed within **3-5s**, this is roughly a **40%** reduction in request processing time.
- Contributed to integrating **Re:Think** and **E10** data migration for **ALLIANT.** This was a way to allow for more of a streamlined process, effectively resulting in a **30% - 40%** reduction in manual efforts.
- Implemented various functions in **ALLIANT** to process large **CSV** files containing data. Utilized **pandas** library to read files, analysis, process, and split the data into smaller batches. These functions significantly improved the processing time and resource usage required for handling large data sets.
- Implemented new **Django** class views to allow end-users to upload **CSV** files and enable them to conduct **analysis** of the data.
- Collaborate with my seniors on the backlogs of tickets to help discuss and implement further changes to **Re:Think** and **E10** to help the software expand with new features and requirements.
- Participate in pull request code reviews to fix and suggest alternative solutions for the given scope. This has been a huge steppingstone in my journey as a developer to enhance my technical knowledge.

- Participate in daily **SCRUM** and distribution meetings with colleagues to stay updated on bug fixes and feature requests. Also, make myself available to offer assistance to team members whenever necessary.
- Provided support to users during the transition to the new platform by organizing workshops, presentations, and a few security training modules to ensure smooth onboarding and best practices.

Tech stack: **C#, Python, .NET, Django, SQL Server, Salesforce, Jira, Git**

Durham College – AI Hub, Oshawa, ON

Research Assistant **January 2019 – August 2020**

As a research assistant, I had the awesome opportunity to work on several projects where we built **APIs** and integrated **AI** models into our client's existing software systems. It was a great experience where I was able to learn a lot and develop my technical skills in various areas. My contributions include the following:

- Developed regression models using technologies such as **Keras**, **Neural Networks**, and **Random Forest**.
- Helped build Restful API using **Flash** and **Django** to allow communication with the regression models.
- Acquired knowledge of conventional **educational data mining** practices through Python and machine learning libraries (**pandas**, **scikit-learn**, etc.).
- Designed a **10-layer neural network** with **dropout layers** and different activation functions using **Keras**.
- Optimized **hyper-parameters** for multiple model architectures to improve performance.
- Assisted new research assistants in getting started with machine learning concepts and guided them as needed.
- Contributed to redesigning a client's existing website using **C#**, **.NET**, and **MySQL**, enabling entrepreneurs to enroll in coaching courses.
- Participated in the deployment of projects on hosting platforms such as **Bluehost** and **Heroku**.

Tech stack: **C#, .NET, SQL Server, Python, Django, Machine Learning, PostgreSQL, Heroku**

PERSONAL PROJECT

Forecaster **[Completed]**

- Web application developed using **Python** and **Django**.
- The project is a publicly accessible web application with a public repository.
- Utilizes weatherapi.com API for weather information to provide the user with accurate and up-to-date weather data for cities within Canada.

Check it out here**:** https://weather-forecast-canada.onrender.com/

SuperHero API **[Overhauling]**

- Original Design:
  - A web application built using **JavaScript** and **React** which was deployed on **Heroku**.
  - The application utilizes API from superheroapi.com to get characters from different comic universes.
  - The project was made to showcase characters' appearances in comics, stats, identity, and personal traits.
- Upcoming changes:
  - Moving the application to build upon **JavaScript**, **NextJS**, and later be deployed on render.com.
  - Alternating to Marvel API, as the API is a lot more organized and stable in comparison to superheroapi.com.

Check it out here**:** https://github.com/Soban-Farhan/SuperheroApi