

Tasnia Nowrin

tasnianowrin@gmail.ca

Canada

Github: tasnianowrin

SUMMARY

Highly motivated software engineer with quick-learning and multi-tasking abilities. Looking for a challenging full stack/frontend/backend role where I can implement my coding knowledge as well as further enhance my skills. The technical expertise includes but is not limited to React/Redux, Node.js, Python, HTML, CSS, MERN, TypeScript, TDD, CI. Possess excellent communication and team-building abilities. Open to relocate anywhere within Canada.

TECHNICAL SKILLS

- **Language:** Java, Python, JavaScript, TypeScript
- **Front-end:** React, Redux, HTML, CSS, Bootstrap, jQuery
- **Backend:** Django, Node.js, Express.js
- **Database:** MongoDB, Apache Cassandra, PostgreSQL, SQLite
- **Version Control:** Git/Github
- **Others:** OOP, AWS, Linux, C++, ETL, TDD, CI

PROJECTS

1. **Movie Rental Management**
 - Built the frontend with features including pagination, sorting, searching, login, register, authorization, etc. using **React** and **Bootstrap**
 - Connected to a **MongoDB** database and built **RESTful APIs** for **CRUD** operations using **Node.js** and **Express.js**
2. **CV/Resume Builder**
 - Built the frontend with features including login, register, authorization, etc. using **HTML** and **Bootstrap**
 - Added the feature to create a custom number of fields of each section in the resume using **jQuery** and **Django formset**
 - Connected to **SQLite** database and built **RESTful APIs** for **CRUD** operations using **Django**
3. **Shopping Cart**
 - Designed and developed a shopping cart with **React, Redux, HTML, CSS, Bootstrap** having features such as adding to and removing from cart, searching products, and managing the current total products/prices with Redux.
4. **Data Modeling with Apache Cassandra**
 - Modeled data by creating tables in **Apache Cassandra** to run queries.
 - Completed an **ETL pipeline** that transfers data from a set of CSV files within a directory to create a streamlined CSV file to model and insert data into Apache Cassandra tables.

EXPERIENCE

University of Alberta

Edmonton, AB

Graduate Research Assistant

Jan 2020 - Present

- Automated the extraction of data from XML/text files using **python** that **reduced 99% of extraction time**
- Analyzed large volume of data using Python libraries such as NumPy, matplotlib, pandas
- Developed forecasting models to predict road surface temperatures using Artificial Neural Networks (ANN)

EDUCATION

UNIVERSITY OF PENNSYLVANIA

Philadelphia, PA

Master of Science (M.S.) in Computer Science (Part-time Remote, Expected graduation Apr 2023)

- **GPA:** 3.85/4.00
- **Courses:** Introduction to Software Development, Data Structures and Software Design, Introduction to Computer Systems, Computer Systems Programming, Algorithms, and Computation

UNIVERSITY OF ALBERTA

Edmonton, AB

Master of Science (M.S.) in Intelligent Transportation Systems (Full time, Expected graduation Apr 2022)

- **GPA:** 4.00/ 4.00