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RAE ABUNAHLA

Rae is a graduate in the field of computer science and is passionate about applied fields in algorithms, data science and problem-solving. Rae particularly strives in engaged teamwork environments and is energized by high impact work.

EDUCATION

York University
Toronto, ON (2015 - 2019)
Computer Science
Specialized Honours Bachelors
of Science
GPA: 3.53/4.00

TECHNICAL PROFICIENCIES

Experience with:

Java	Python	HTML/CSS
C	Spring	JavaScript
SQL	ReactJS	

Experience in:

Big Data	eCommerce
Natural Language Processing (NLP)	Web Development

PROFESSIONAL EXPERIENCE

Accenture

● Front-End Developer *April 2020 - present*

- Designed UI/UX interfaces using Adobe's Creative Cloud products for interactive rapid prototyping
- Used ReactJS to create visual front-end components that render data fetched from API calls and JSON objects
- Improved modularity by developing reusable components for optimized workflows
- Used Jest for mock functions and running unit tests

● Data Science Engineer *January 2020 - March 2020*

- Gathered user requirements and strategic priorities to design data capturing surveys for client organizations
- Used Python to run Natural Language Processing practices & algorithms such as K-means & LDA to identify clusters in free-text survey data on over 2,000 employees
- Used Tableau to present and highlight findings through interactive dashboards to a C-suite group from the organizations

● Back-End Developer Intelligent Entity Resolution *September 2019 - January 2020*

- Worked closely with a data engineer and front-end developer to create a client-facing platform that identifies duplicates across datasets in a data lake
- Primarily worked with Java Spring Frameworks integrated MVC design patterns via SQL and JSP
- Completed unit tests, error handling pages and new features that impacted thousands of users and datasets
- Used Git to maintain consistent workflow & to merge with fellow developer teams
- Used Jenkins to reduce the number of time and deployment steps

PAST EMPLOYMENT

Teaching Assistant
Lassonde School of Engineer-
ing (York University)
September 2016 - April 2019

- Supported over 40 undergraduate students in developing coding projects each semester via mentoring, tutoring & grading
- Maintained prompt correspondence with course instructors and students online queries

- Presented accomplishments via work iterations on a weekly basis
- Practiced academic literacy and critical thinking to solve research problems
- Attended conferences and gave presentations to audiences of ~100 people

PROJECTS

Lassonde School of Engineering

- **CAPSTONE:**
Emotional & Sentiment Dataset Generation and Analysis for Song Lyrics in Song Recommendation Systems
Capstone Project
January 2019 - April 2019

Goal: Create a dataset using Big Data technologies for the sentiment analysis of song lyrics
Actions:
 - Used Python, Apache Spark and public API tools to scrape website such as Genius Lyrics of songs for song lyrics
 - Used MapReduce algorithms to improve the runtime of sentiment analysis runtime**Accomplishments:** Created a dataset with over 100,000 songs, their lyrics, metadata and their sentiment and emotional NLP analysis scores
- **NLP & Data Analytics On Twitter Users Tweets About Mental Health**
Big Data Research Lab
November 2018 - December 2018

Goal: Study the trends of users on Twitter using certain hashtags, phrases or expressions
Actions:
 - Used Python, Apache Spark and Hadoop to create both streaming and batch data layers that were constantly processed data
 - Created a live dashboard to see trends on a daily basis of the most popular hashtags related to mental health using ReactJS & Flask**Accomplishments:** Created insights and a presentation on findings using over 1.2 million user tweets on 50 associated mental health topics.
- **eFoods**
e-Commerce Course
September 2018 - December 2018

 - Implemented a fully functioning B2B eGrocery Store website
 - Experienced JSP, SPA & AngularJS implementations of e-commerce sites
 - XML/JSON data marshaling using Java/Eclipse IDE
 - Engaged as a developer, designer & project manager in order to meet requirements and deadlines
- **Library eStore**
Databases Course
January 2017 - April 2017

 - Used Java to create a Bookstore application with a shopping cart functionality
 - Used SQL to extract complex queried information from a 80,000 entry dataset
 - Tested code after every work iteration to ensure working model

AWARDS

- Provincial Winner Cooperathon Pitch Competition - Environment Track (November 2019)
- Student's Choice Award - Best Presentation at Lassonde's Undergraduate Research Conference (August 2018)
- Lassonde Undergraduate Research Award at Lassonde (May 2018 & May 2017)
- Best Presentation - Second Place at Lassonde's Undergraduate Research Conference (August 2017)
- Chair's Honour Roll in Mathematics and Statistics at York University (March 2016)