Mohamed Harmanani

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EDUCATION

UNIVERSITY OF TORONTO
COMPUTER SCIENCE SPECIALIST
Expected May 2020 | Toronto, ON
Cum. GPA: 3.11/4.00
Minor in Philosophy

COURSEWORK

UNDERGADUATE
Object-Oriented Programming
Software Design
Systems Programming
Data Structures
Operating Systems
Relational Databases

SKILLS

PROGRAMMING
Python • Java • C • HTML
CSS • Bash • LaTeX • Racket
Haskell • MySQL

FRAMEWORKS
NumPy • Matplotlib • pandas
BeautifulSoup • Java Swing • AWT
Graphics2D

TOOLS & TECHNOLOGIES
Eclipse • Git • Unix/Linux • gdb
Windows • Visual Studio Code • valgrind

EXPERIENCE

OGERO TELECOMMUNICATIONS
SOFTWARE DEVELOPMENT INTERN
April 2018 - May 2018 | Beirut, LB
- Implemented tools to analyze data pertaining to enterprise and employee daily performance with the help of pandas & NumPy
- Implemented algorithms to fetch, pull, and visualize data for the company's ticketing system
- Greatly cut down time spent gathering data and writing reports

SIDE PROJECTS

EPISODE RECOMMENDATION SYSTEM
COMMAND LINE APPLICATION
Python, SQL
- Implemented a recommendation system that matches keyword input from the user with the data
- Wrote Python scripts to scrape and store TV show data from IMDb into a SQLite database
- Implemented the TF-IDF, cosine similiarity, and Jaccard procedures to perform basic content-based filtering and natural language computing

UNBEATABLE TIC-TAC-TOE
MVC APPLICATION
Java
- Used the minimax algorithm to implement an unbeatable artificial agent for Tic-Tac-Toe
- Designed a clean, minimalist user interface with the help of Java Swing and AWT

COURSE PROJECTS

PAINT CLONE
MVC APPLICATION
Java
- Implemented a MS Paint clone program using Java Swing, AWT, and Graphics2D.
- Added save and load functionalities.
- Used Scrum to work on the first part of the project as part of a team of four, then in pairs.
- Helmed the first part as Scrum master, and oversaw adequate division of roles and user stories.

EXTRACURRICULAR ACTIVITIES

GORDON INVESTMENT RESEARCH
FINANCE SEMINAR
Oct 2018 | University of Toronto
- Attended the GIR seminars, and covered topics such as accounting, asset management, and financial modelling

DEERHUNT II
PROGRAMMING COMPETITION
Feb 2018 | University of Toronto
- Applied various skills in computer science, mathematics, and statistics to progress through complex and challenging problems