Abhishek Chakraborty

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EDUCATION

UNIVERSITY OF TORONTO | Toronto, ON | 2017 - Present (Expected May 2021)

Candidate for Honours Bachelor of Science – Computer Science & Statistics

Relevant Coursework: Data Structures & Analysis, Software Design, Intro to Databases, Computer Organization, Methods of Data Analysis, Statistics for Computer Science

SKILLS

LANGUAGES: Java, Python, JavaScript, HTML & CSS, Verilog, R

TECHNOLOGIES: Postgres, Android, Git, JavaFX, Unix

TOOLS: IntelliJ, PyCharm, Visual Studio Code, Android Studio

EXPERIENCE

Staples SOFTWARE ENGINEER INTERN - STAPLES INC. | January - April 2019

Worked in an Agile development environment as developer of warehouse robotics simulator. Simulator serves to model and test algorithms for multi-robot processes.

- Developed discrete and event-based Java simulator system. Created simulator output graphs and animation with Python using Matplotlib library with pyplot and animation.
- Implemented dynamic robot routing using A* algorithm. Featured robot-collision avoidance using grid segment-locking system with multi-robot deadlock detection using directed edge graph.
- Simulated warehouse order timings using Poisson process and worked with Quadtree data structure for object collision detection.

PROJECTS

RESTMAN Restaurant Manager | GitHub: Java-Restaurant-Management-System

- Synchronized system helps manage food orders and employee tasks and displays relevant analytics such as menu item popularity and periodic sales using JavaFX.
- Frontend developed using JavaFX and backend using Java.

WORDLOOKUP Chrome Extension | GitHub: Google-Chrome-WordLookup-Extension

- Enables easy lookup of word by highlighting word and clicking extension icon.
- Utilized Wordnik API for word data along with Google Chrome API
- Used HTML & CSS to design extension pop-up and JavaScript and jQuery to query, receive and parse data.

Android Weather App | GitHub: Android-Weather-App

 Used OpenWeatherMap, Android API's and SQLite to build weather application with Android Studio IDE.