Abhishek Chakraborty

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Github: github.com/abhiChakra

EDUCATION

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

Candidate for Honours Bachelor of Science - Computer Science & Statistics

Relevant Courses: Data Structures & Analysis, Software Design, Computer Organization, Linear Algebra, Multivariable Calculus, Statistics for Computer Science

SKILLS

LANGUAGES: Java, Python, JavaScript, Verilog, R

TECHNOLOGIES: Android, Git, Unix

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

EXPERIENCE

Staples SOFTWARE ENGINEER INTERN – STAPLES INC. | January – April 2019 Worked in Agile development environment as lead developer of warehouse robotics

Worked in Agile development environment as lead 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 employee tasks and prepares relevant analytics such as menu item popularity and periodic sales.
- Frontend developed using JavaFX and backend using Java.

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

- Extension allows user to easily lookup word definition 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.