Abhishek Chakraborty

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EDUCATION

UNIVERSITY OF TORONTO | Toronto, ON | 3rd Year Student (2017 - Expected Dec. 2021) Candidate for Honours Bachelor of Science – Computer Science & Statistics

SKILLS

LANGUAGES: Python, JavaScript, Java, SQL, R

FRAMEWORKS/LIBRARIES: Flask, React, Node, Express, Pandas, JavaFX, Matplotlib

TOOLS/SERVICES: Docker, Kubernetes, Nginx, Google Cloud Platform (GCP),

PostgreSQL, MongoDB, Mongoose

EXPERIENCE

CIBC Data Studio | Software Developer Intern | Waterloo, ON January – April 2020 React, Nginx, Flask, Docker, Google Kubernetes Engine (GKE), PostgreSQL, Pandas

- During COVID-19 crisis, developed and deployed within single week an emergency info-querying web-app for CIBC contact centres. Anticipating 300+ daily users.
- App uses React-Nginx web-server with Flask-WSGIServer application-server.
- Containerized with Docker and deployed onto a GKE Kubernetes cluster configured as web/app server Deployments exposed using LoadBalancer & ClusterIP services.
- Developed a cost-management web-app featuring user-authentication, file-upload and data storage using PostgreSQL DB on GCP SQL. Deployed onto GCP VM Instance.
- Developed updates for a Flask web-app featuring analytics using jQuery and chart.js.

Staples Inc. | Software Engineer Intern | Mississauga, ON Java, Python, Matplotlib, Agile environment (Scrum)

January – April 2019

- Developed a Java simulator to test robotic efficiency for a project implementing mobile robots in Staples' supply warehouses, as similarly shown <u>here</u>.
- Programmed simulator's output statistics and visuals for robot movements with Python using Matplotlib library with pyplot and animation.
- Implemented **dynamic robot routing** on a warehouse floor grid with A* algorithm.
- Drastically reduced robot collisions with Quadtree DS and directed edge graphs.

PROJECTS & WRITINGS

Build and Deploy a Web-App | Medium

Two-part article outlining a React-Flask web-app development and deployment process.

Restman Restaurant Manager | Java, JavaFX | GitHub

Synchronized **Java** system that manages food orders and displays relevant analytics such as menu item popularity and periodic sales using **JavaFX**.

WordLookup Chrome Extension | *Wordnik API, Chrome API* | <u>**GitHub**</u> Extension enables easy lookup of words by highlighting word and clicking icon.