

# Abhishek Chakraborty

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Website: <https://abhichakra.github.io> | GitHub: [github.com/abhiChakra](https://github.com/abhiChakra)

## EDUCATION

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**UNIVERSITY OF TORONTO** | Toronto, ON | 3<sup>rd</sup> Year Student (2017 - Expected Dec. 2021)

Candidate for Honours Bachelor of Science – Computer Science & Statistics

## SKILLS

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**LANGUAGES:** Python, JavaScript, Java, SQL, R

**FRAMEWORKS:** Flask, React, Node, Express, Pandas, JavaFX

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

## EXPERIENCE

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**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. **Actively** used by CIBC members.
- 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 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 Flask web-app featuring data charts using **jQuery** and **chart.js**.

**Staples Inc.** | *Software Engineer Intern* | Mississauga, ON January – April 2019

*Java, Python, Matplotlib*

- Developed **Java** simulator to **model robotic efficiency** in Staples' warehouses.
- Programmed simulator output graphs and visuals with **Python** using **Matplotlib** library with pyplot and animation.
- Simulated robot movements using dynamic robot routing with **A\* algorithm**.
- Simulated large-scale warehouse orders using **Poisson process** and used **Quadtree** data structure for robot **speed** and **collision detection**.

## PROJECTS & WRITINGS

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**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* | **GitHub**

Extension enables easy lookup of words by highlighting word and clicking icon.