

# 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 Aug. 2022)

Candidate for Honours Bachelor of Science – Computer Science Specialist

## SKILLS

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

**FRAMEWORKS/LIBRARIES:** Flask, React.js, Redux, Node.js, Express, Pandas, JavaFX, Matplotlib

**TOOLS/SERVICES:** Docker, Kubernetes, Nginx, AWS Elastic Beanstalk (EB), AWS EC2, Google Cloud Platform (GCP), TravisCI, PostgreSQL, MongoDB, Mongoose

## 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. Anticipating **300+ daily** users.
- 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**. **Actively** used by CIBC members.
- Developed updates for a Flask web-app featuring analytics using **jQuery** and **chart.js**.

Supervisor's (Stephen Xie) work term evaluation: Outstanding Performance (7/7)

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

*Java, Python, Matplotlib, Agile environment (Scrum)*

- Developed a **Java** simulator to **test robotic efficiency** for a project implementing mobile robots in Staples' supply warehouses, as similarly shown **here**.
- 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**.

Supervisor's (Sandeep Sikka) work term evaluation: Outstanding Performance (7/7)

## PROJECTS & WRITINGS

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**RateARental Web-App** | *MERN, Docker, AWS EB, TravisCI, Mongoose* | [Link](#), [GitHub](#)

Web-app where users can receive and give reviews about rental listings.

**Build and Deploy a Web-App** | *React, Flask, Docker, GKE* | [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**.