

# Abhishek Chakraborty

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## EDUCATION

**University of Toronto** - 3<sup>rd</sup> Year Student (Expected Aug. 2022)

Candidate for Honours Bachelor of Science – Computer Science Specialist, Statistics & Maths Double Minor

## SKILLS

**Languages:** Python, JavaScript (ES6), Java, SQL

**Frameworks/Libraries:** Flask, React.js, Redux, Node.js, Express, Jest, Enzyme, Pytest, Matplotlib

**Tools/Services:** Docker, Kubernetes, Nginx, Google Cloud Platform (GCP), Google Kubernetes & Compute Engine, PostgreSQL, MongoDB, AWS Elastic Beanstalk (EB), TravisCI

## EXPERIENCE

**CIBC Enterprise Innovation** | *Software Developer Intern*

Sept. – Dec. 2020

*Redux, Jest, Enzyme, Pytest, Docker, GCP Cloud Build, Bash, Red Hat OpenShift*

Toronto, ON (Remote)

Supervisor's (Hao Lin- Senior Data Scientist) work term evaluation: **Outstanding Performance** (7/7)

- Developed a file-summarization web-app for CIBC Capital Markets to **reduce processing time by 66%**.
- Capital Markets web-app consists of a **React-Redux** front-end (**Nginx** server) paired with a **Flask** REST API backend (**WSGI** server), using a cloud **PostgreSQL** database and **Pytest** for unit-testing.
- Built a CI/CD pipeline using **Google Cloud Build** triggers to automate **Docker containerized testing** as well as containerized **app deployments** to GCP **Compute Engine VM** instances using **YAML** and **Bash** scripts.
- Initiated a TDD practice for React-Redux code by writing dozens of unit tests with **Jest** and **Enzyme**.

**CIBC Data Studio** | *Software Developer Intern*

Jan. – Apr. 2020

*React.js, Nginx, Flask, Docker, Google Kubernetes Engine (GKE), PostgreSQL, Pandas*

Waterloo, ON

Supervisor's (Stephen Xie- Software Developer) work term evaluation: **Outstanding Performance** (7/7)

- Spearheaded the development of an urgent COVID-19 info-querying web-app for CIBC contact centres.
- Applied a **scalable** web-app deployment procedure through **Kubernetes** on **GKE** clusters.
- Developed and deployed interactive web-apps for prominent bank stakeholders featuring **chart analytics** using **chart.js**, cookie-token **user-authentication**, **file-upload** and **PostgreSQL** data storage/fetching.

**Staples Inc.** | *Software Engineer Intern*

Jan. – Apr. 2019

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

Mississauga, ON

Supervisor's (Sandeep Sikka- Dir. Robotics Eng.) work term evaluation: **Outstanding Performance** (7/7)

Developed a desktop **Java** simulator to **quantify robotic efficiency** for a project implementing mobile robots in Staples' supply warehouses, as similarly shown [here](#):

- Simulator featured **dynamic robot routing** using **A\* algorithm**, collision avoidance using **Quadtree** data-structure and curated warehouse floor statistics.
- Visuals for robot movements were traced with **Python** using **Matplotlib** library with pyplot and animation.

## PROJECTS

**Miscellaneous:** I often write technical software development articles on [Medium](#).

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

Web-app where users can create an account to receive and give reviews about rental listings.

Restman Restaurant Manager | *Java, JavaFX* | [GitHub](#)

Synchronized POS system manages workflow as well as curates and displays analytics using **JavaFX**.