

Abhishek Chakraborty

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EDUCATION

UNIVERSITY OF TORONTO - 3rd Year Student (2017 - Expected Aug. 2022)

Candidate for Honours Bachelor of Science – Computer Science Specialist


SKILLS

LANGUAGES: Python, JavaScript (ES6), Java, SQL


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

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

EXPERIENCE


 **CIBC Enterprise Innovation** | *Software Developer Intern*
MaRS Discovery Dist., Toronto, ON (Remote) | Sept. – Dec. 2020 (ongoing)
React.js, Redux, Jest, Flask, PyTest, Nginx, PSQL, Docker, GCP Compute VM

Developing customized web-app solutions for stakeholders and working to establish a broader integrated testing and CI/CD deployment strategy in the data team.

 **CIBC Data Studio** | *Software Developer Intern* | Waterloo, ON Jan. – Apr. 2020
React.js, Nginx, Flask, Docker, Google Kubernetes Engine (GKE), PostgreSQL, Pandas
Supervisor's (Stephen Xie) work term evaluation: **Outstanding Performance (7/7)**

Worked closely with team data-scientists to deliver interactive and data-intensive RESTful APIs and full-stack web-applications for prominent bank stakeholders:

- During onset of COVID-19 closures, spearheaded the development and deployment of an emergency info-querying web-app for CIBC contact centres. Delivered project within a **single week**.
- Introduced to the studio a **scalable** web-app deployment procedure through **Kubernetes** on **GKE** clusters via configuring **Deployments** exposed using **LoadBalancer** & **ClusterIP** services.
- Developed and deployed several full-stack web-apps featuring **chart analytics** using **jQuery** & **chart.js**, **user-authentication**, **file-upload** and data storage/fetching using **PostgreSQL** databases on GCP SQL.

 **Staples Inc.** | *Software Engineer Intern* | Mississauga, ON Jan. – Apr. 2019
Java, Python, Matplotlib, Agile environment (Scrum)
Supervisor's (Sandeep Sikka) work term evaluation: **Outstanding Performance (7/7)**

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

- Simulator featured **dynamic robot routing** using **A* algorithm** and collision avoidance using **Quadtree** data-structure and **directed edge graphs**. Simulator also outputs warehouse floor statistics and visuals for robot movements with **Python** using **Matplotlib** library with pyplot and animation.

PROJECTS

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