Abhishek Chakraborty

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EDUCATION

University of Toronto - 3rd 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**.