Chen Hong

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EDUCATION

- **University of Toronto** *Bachelor's degree, Computer Science* Toronto, Canada — *Sept 2016 - Apr 2020*

EXPERIENCE

- **Amazon** *Software Engineer Intern* Toronto, Canada — *May 2017 - Aug 2017*
  - **Summary/Goal**: Design and implement a report visualizing how the workforce system has performed in real time
  - **Data Collection(backend)**: Aggregate data from local and other team's service with **Java** and save to our team's **AWS DynamoDB**, auto populates data for every 30 minutes.
  - **Visualization(frontend)**: Design multiple blueprint interfaces and submit for co-workers to review, build a website interface with **React** for users to query with a combination of a particular area of workforce system and range of time interval.
  - **Achievement/Impact**: After the user query is validate, it will query the database in the backend and display a report showing what the workforce system has taken during the queried time interval , then the user could evaluate the system based on the visualization report; Optimized the query time by **2 to 3** seconds faster per query by conditional refactoring and filtering; Write multiple unit tests, test coverage is above **99%**.

PROJECTS

- **SDC Form Service** — *Feb 2020 - Mar 2020*
  - Coorperate with a team of 4 to build a full-stack application that allows user to upload/retreive SDC forms.
  - Built consistent UI components using **react-bootstrap** library.
  - Successfully deployed the application to Heroku.

- **Believe Initiative Web App** — *Oct 2019 - Nov 2019*
  - Lead a team of 5 as the scrum master to build a web application that allow users to upload and track their course experience.
  - Implemented RESTful routing, user authentication, comment, password reset, login page , stored student upload data and security credentials in **MySQL**.
  - Completed all 7 customers requested user stories, achieved 95% test-coverage and successful deployment.

- **Food Deliver Web App** — *Oct 2018 - Nov 2018*
  - Built a web application using **Node.js**, **Express** and **MongoDB** based on **AWS**.
  - Developed the front-end based on **BootStrap**, **Vue** and developed **RESTful API** service via **Node.js**.
  - Developed user authentication and authorization, flash messages, in-app notifications and map features with **Google Map API**.
  - Deployed and hosted on Heroku to serve beta users and gather customer feedback.

- **E-commerce System** — *May 2018 - Aug 2018*
  - Developed **RESTful API** for e-commerce system to parse and response order requests using **Java**, **Spring Boot**, **Hibernate** and **MySQL**.
  - Utilized **Maven** to manage dependencies and **JUnit** to test the system with coverage of 92%.
  - Created Dockerfiles to deploy microservices on **Docker** containers. Configured the network for inter-container communication.
  - Worked on **Jenkins** for Continuous Integration which can automatically build, test and deploy the application.
  - Used **JIRA** for ticket tracking, changes management and Agile/SCRUM tool.

- **Book Store Management System** — *Oct 2017 - Nov 2017*
  - Implemented the classical **Java** Servlet, MVC model with unit test.
  - Designed the database schema, connecting by **JDBC** connector.

PROGRAMMING SKILLS

- **Languages**: Java, Python, JavaScript, SQL, C/C++, CSS, HTML
- **Technologies**: Node.js, MySQL, Bootstrap, MongoDB, MySQL, Sprint Boot, Docker, Maven, AWS, Unix/Linux, Git, React, JDBC, Hibernate, Restful API, Vue, Express