

HaoHao Du

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Work Experience

- Backr [↗](#) **Kingston, ON**
Full Stack Developer *August 2020 - December 2020*
 - Led the front end development of an audience engagement platform using **React** and **Redux** to deliver a more scalable application.
 - Implemented a user customized sorting algorithm with **PostgreSQL** to help creators make data-driven decisions in fan interactions
 - Rearchitected the registration workflow to preload user data using **NodeJS**, **Sequelize**, and the **Youtube API**, reducing user loading time by over 90%
- RCMP **Ottawa, ON**
Software Developer Intern *September 2019 - December 2019*
 - Worked with senior engineers to develop a prototype policing application to improve public safety using **C#** and the **.NET framework**
 - Implemented a **multi-threading model** and **websockets** to improve application render speed, slashing user wait times by **50%**
- Shared Services Canada **Ottawa, ON**
Junior Security Analyst *May 2019 - August 2019*
 - Constructed a proof of concept web app in response to a internal security breach using **React** to highlight security liabilities
 - Performed organization-wide data analysis (150 000+ users) using **PowerBI** and **Dax** to determine vulnerable government sectors and reinforce security protocols

Software Projects

- iContribute [↗](#)
Founder *May 2020 - Present*
 - Founded and led a team of 8 software developers, 2 designers, and 1 project manager to build and deploy a mobile app to the **iOS** [↗](#) and **Android** [↗](#) app store which connects students to local volunteering opportunities
 - Led pair-programming sessions, hosted **Firebase**, workshops, and pioneered ideation meetings to foster a collaborative work environment
 - Leveraged market research and feasibility studies to create business partnerships with non-profit organizations such as the Ottawa Food Bank (**4000+ volunteers**), the Ottawa Salvation Army, and the Ottawa District School Board
- CuHacking 2020 [↗](#)
Backend Developer *Jan 2020*
 - Built a data-scraping web application that performs sentiment analysis on Tweets (over 100000+ tweets and 10years) regarding RBC to pinpoint the root cause of negative customer feedback
 - Implemented Google Cloud's Natural Language Processing API to showcase correlations between specific keywords and negative twitter reviews (100 000+ tweets) through live data chart visualizations

Education

- Carleton University, Ottawa **Ottawa, ON**
Bachelor of Computer Science Minor in Business, *Expected Graduation: April 2022*
Related Coursework: Software Engineering, Database Systems, Operating Systems, Data Structures and Algorithms.
Technical Qualifications: React, React Native, Redux, Typescript, HTML, CSS, Firebase, Python, PostgreSQL, Github

ExtraCurriculars

- Canadian University Software Engineering Conference
Co-Director of Sponsorship Team *September 2020 - Present*
 - Reorganized marketing workflow by proposing and implementing a new outreach strategy that lead to an increase of sent emails per week by 300%, 12 new sponsors being onboarded and \$2000 worth of funding being raised within the span of 3 weeks

Bucket List Achievements

- Successfully jumped out of a moving plane 13 000 feet off the ground and landed, alive
- Leaned off the edge of the CN Tower and yelled "HELLO TORONTO!" at the heart of downtown Toronto