ALEX ZHANG

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EDUCATION

University of Waterloo / Wilfrid Laurier University - 2020-2024
Candidate for Bachelor of Computer Science and Bachelor of Business Administration - 3.9 GPA

- President's Scholar ($2000)
- National Math Scholar ($15000)

SKILLS

- **Languages**: Java, Python, C++, Javascript/Typescript, React/Angular, R, C#, SQL
- **Tools**: Docker/Openshift, Unreal/Unity, Git, LaTeX, SolidWorks, Rasa/Mycroft/Azure

RELEVANT EXPERIENCE

Royal Bank of Canada - Cloud Developer
📅 May 2021 – Aug 2021

- Taught **80+** developer teams an overview of **Docker and containerization**, and how to deploy their local apps onto **RedHat Openshift** with deployment config **YAML** files.
- Allowed rapid transfer of **100+** projects from local machines to the cloud by builing API which injects secrets from **Vault** to containerized apps across **15 Kubernetes Clusters**.
- Automated query verification, external HTTP requests, and user authentication using **Spring**, saving **1200+** hours of manual initialization and verification work.

Royal Bank of Canada - Full Stack Developer
📅 Jul 2020 – Aug 2020

- Led a development team towards building an internal retrospective web app, giving **7000+** developers the ability to discuss and track the progress of sensitive projects.
- Enabled real time board search and filter functions with **React / ExpressJS**, leveraging **stateful** variable page reloading to reflect results as the user types into a field.
- Connected app to RBC central credential databases via **SSO** to expedite employee login.
- Established **OAuth 2.0** connections to external platforms (Github, Jira, Slack) to enable retro board exports.

📅 Jul 2019 – Aug 2019

- Built an intern management system that handles manager evaluation, goal setting, and future recruitment, which now serves **2000 users daily** in production.
- Developed intern surveying functionality using **MYSQL**, **Spring**, and **Angular** to allow users to fill out personal information and save it for future use.
- Pulled user info from central RBC databases using **RESTful API** calls from **Spring** to enable manager/intern specific views, show profile pictures, and populate management hierarchies using **Angular**.

ADDITIONAL EXPERIENCE

Developer, Marketing Coordinator - Computer Science Club
📅 April 2021 - Present   📍 Waterloo, Ontario

- Worked with **Sqlite** and **Discord.js** to create interviewer scheduling functionality for club members. link
- Applied the **stable marriage algorithm** to set up coffee chat matching functionality, reaching **85%** consistency in finding brand new chatting pairs.
- Advertised upcoming club events on social media, reaching **500+** average viewers and generating **150+** average interactions.

Polygraph - Hack The North 2020++
📅 Jan 2021   📍 Waterloo, Ontario

- Created a real time fact checking chrome extension, verifying claims within **30 seconds** for Youtube videos under 10 minutes.
- Used **JavaScript** for frontend, queryied YouTube's API for video transcripts, and leveraged **Azure** and **Google Fact Check** for claim verification.