XIAO ZHANG

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EDUCATION

University of Toronto   Sept '21 - Apr '25
Bachelor of Applied Science in Engineering Science - BASc

- **Major in Machine Intelligence** and **minor in Robotics & Mechatronics**
- **Relevant Courses:** Algorithms & Data Structures, Machine Learning Foundations (AWS)
- **Extracurricular:** Webmaster at UTESCA, Technical Lead at FinTorch, Developer at aUToronto

SKILLS

Languages: JavaScript/TypeScript, Python, C/C++, Java, SQL, MATLAB
Frameworks/Libraries: ReactJS, Tailwind, Nodejs, ElectronJS, Flask, Django, Angular, PostgreSQL
Tools: Firebase, Figma, Heroku, Docker

EXPERIENCE

Royal Bank of Canada (RBC) | Software Developer   May '22 - Aug '22

- Integrated a Data Hub for RBC online banking, which organized client information and checked account records from **9 countries** through **ReactJS, Django and PostgreSQL**.
- Launched a highly customizable cross-platform **desktop APP** designed **ReactJS and ElectronJS** that generated tech reports with built-in screenshot features and document generation.
- Constructed backend **REST APIs** using **ElectronJS** to improve the efficiency of the **Report Generator APP** by **600%**.

Royal Bank of Canada (RBC) | Innovation Developer   Jul '21 - Aug '21

- Enhanced a tech information center, RBC Tech Search, that connected over **7 platforms and 11 communities** and provided an efficient research method for **over 9000 RBC developers**.
- Designed UI and created components for **5 sites** via **Figma, Angular and Typescript**.

Google | CSSI Scholar   Jul '21 - Aug '21

- Collaborated with **Google Software Engineers** on **12** coding challenges and **4** projects in **JavaScript** and **Firebase** to learn about web server and software development.
- Implemented Firebase features, such as **Realtime Database, Realtime Storage** and **Authentication**, into a Note-Taking App to store important documents onto Google Accounts.

PROJECTS

FinTorch ↗   May '22 - Sept '22

- Performed financial news sentimental analysis, stocks trend visualization and provided personalized advice for retail investors.
- Built frontend functionalities, such as stock trending chart and personalized recommendation with **ReactJS, Tailwind, MUI** and hosted the Web APP on **Heroku**.
- Assembled a portfolio of assets that maximized the expected return based on the client's risk tolerance with **Modern Portfolio Theories** through **REST APIs** on **Flask**.

COVID-19 Simulation ↗   Sept '20 - Nov '20

- Simulated the spread of COVID-19 in a city and analyzed the impact of different policies on the spread in **Java**, with over **10k** total project reviews and **300** weekly visits.
- Reduced code redundancy with **abstraction and inheritance** in **object oriented programming** and improved performance by various data structures by **400%**.