DEREK LI

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EDUCATION

University of Waterloo, Waterloo, ON, Canada

Honours Bachelors of Software Engineering (2022 - 2027)
- President's Scholarship of Distinction
- Carl A. Pollock Engineering Scholarship
- Term: 2A; Cumulative GPA: 77

WORK EXPERIENCE

Canada Revenue Agency, Ottawa, ON, Canada

Software Engineer Intern (MAY 2023 - PRESENT)
- Implemented 8 tax forms and 4 reports by **automating** data retrieval process for millions of companies with **SQL** and dynamically populating the forms to streamline the tax document verification process; **Java, Angular**
- Optimised legacy internal applications by reducing existing **SQL** statements that required a **few thousands queries to one**; improving response times from 10 minutes down to a few seconds and saving server resources.

Nokia, Ottawa, ON, Canada

Future Tech Intern (JULY 2021 - AUGUST 2021)
- Developed front end web pages for 3 large scale applications using **React JS** for the Network Service Platform to automate and control IP and optical networks; webpages are used by thousands of customers.
- Discovered 5 visual and functional bugs in existing applications, raising issues with **JIRA** and fixing them using **Java Spring Boot** framework for backend and **React JS** for frontend to optimize user experience for thousands.

Code Ninjas, Ottawa, ON, Canada

Coding Instructor (JULY 2020 - JANUARY 2022)
- Taught 100+ 5 to 14 year-old students to code games and develop algorithms using **Scratch, Javascript & Python** by creating a welcoming environment and accommodating to their individual skill level and learning style.
- Delivered exceptional customer service in virtual and in person environments, helping students reach their goals; received the title of "Favourite Instructor" from 20 students and 18 Employee of the Month nominations.

PERSONAL PROJECTS

UncoverPC — *PC Builder*
- Designed and developed a cost-saving website using **Java, Spring Framework, HTML, CSS, JS,** enabling users to automatically configure custom desktops based on pre-built models, achieving an average 20% in savings.

Interqu— *Interview Simulator*
- **Led a team of four** in developing a web-app designed to improve job seekers interview skills by leveraging **Artificial Intelligence** to provide feedback on visual, audio, and contextual performance from mock interviews.
- Set deadlines, led meetings and delegated tasks based on individual strengths to optimise efficiency; used various technologies like **Python, Pytorch, Javascript, AWS, MongoDB, Java Spring Framework, HTML, CSS, etc.**

EXTRA-CURRICULARS

Earl Of March's First Robotics Competition- TEAM7476, Ottawa, ON, Canada

Software Team Lead (MAY 2021 - MAY 2022)
- Trained and led 8 software developers to use **Java and WPILIB** to control the movement, vision, and overall functionality of the robot to compete in the First Robotics Competition 2022 RAPID REACT.
- Organised outreach events with five executive members in various communities to inspire 200+ youth into STEM.

SKILLS

- Java, Python, C, C++, Typescript, Javascript, SQL, HTML, CSS, Angular, React, Spring Framework, Flask, PyTorch, Docker, Web-Scraping, AWS