

Krish Chopra

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EDUCATION

University of Waterloo

Sep. 2023 - Present

Candidate for Bachelor of Computer Science and Business Administration - BCS & BBA (Dual Degree)

- **Relevant Courses:** Functional Programming, Algorithm Design & Abstraction, Software Tools/Techniques, Calculus II, Linear Algebra
- **Scholarships:** René Descartes National Scholarship (\$25,000), President's Scholarship of Distinction (\$2,000)

EXPERIENCE

Royal Bank of Canada (RBC), Software Innovation Developer | Toronto, ON

Jul. - Aug. 2023 | Jul. - Aug. 2022

- In 2023, as part of the Workflow Technology team, streamlined RBC's Global Compliance Management System using *PEGA 8*
- Structural redesign estimated to save 2,700+ hours of staff productivity spent on a database of 300,000 compliance cases per year
- In 2022, worked in agile sprints to develop a secure internal URL shortener as a Chrome extension with *Node.js*, *Express.js*, & *React*
- Implemented data analytics functionality using *Elasticsearch* and *MariaDB*, leading to a 55% increase in workshop engagement
- Presented final product to senior RBC executives and received the Biggest Pivot Award for rapid software iteration/development

Hatch Coding, Software Developer Intern | Toronto, ON

Jul. 2021 - Sep. 2021

- Managed the Python & JavaScript codebase of the Hatch platform, with over 600 guided projects/challenges for students to build
- Developed and edited existing projects to increase user-friendliness, utilizing the *p5.js* and *Processing.py* programming libraries

Freelance, Computer Science Tutor | Greater Toronto Area, ON

Mar. 2021 - Present

- To date, tutored 15 high school students in key CS concepts using Java and Python (e.g. algorithms/data structures, recursion)
- Prepare personalized weekly lessons along with reinforcement material, while coordinating lesson logistics and monetary affairs

York Region Presidents' Council, Chair | York Region, ON

Jul. 2020 - Sep. 2022

- Represented and advocated for the diverse voices of 128,000+ students across the York Region District School Board (YRDSB)
- Led team of 12 students and 6 staff advisors, hosting monthly events and online forums to address student concerns/feedback
- Helped reform the YRDSB's Mental Health and Addictions Strategy, resulting in an additional \$1 million in mental health funding

SKILLS

Languages/Libraries: Python, Java, JavaScript (React, Node.js), C, Swift, Racket, SQL, HTML/CSS, Pandas, NumPy, Scikit-learn

Tools: Microsoft Office (Excel, Word), Google Workspace/Cloud, Firebase, Azure, Figma, Git, Linux, Adobe CC, VS Code, LaTeX

PROJECTS

EasyBill: Swift, SwiftUI, Firebase (Cloud Firestore, Firebase Authentication)

- Developed iOS app to easily log and categorize personal/business expenses—based on title, tag, date, price, and number of people
- Integrated Firebase backend for user registration and authentication, alongside Firestore database to save/retrieve expense data

Heart Disease Detection Model: Jupyter Notebook, Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn)

- Leveraged ML algorithms (Logistic Regression, Random Forest) to build a robust model that detects heart disease from a data set
- Performed trend analysis/visualization, feature scaling, and model parameter tuning, to achieve an overall testing accuracy of 89%

EduTracker: JavaScript (Node.js), HTML/CSS, Microsoft Azure

- Helped create a web application that allows educators to track key metrics related to student engagement during virtual classes
- Used Azure AI for text analytics—such as determining responsiveness, speech duration, and keywords, based on a text transcript

HONOURS

First Place in Canada & Second Place Internationally, FBLA NLC Competition (Entrepreneurship)

Jun. 2023

Offered Schulich Leader Scholarship (\$100,000), McGill University (School of Computer Science)

May 2023

Certificate of Distinction, Canadian Computing Competition (Senior Division, Top 25%)

Feb. 2023