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)
- **Activities/Societies:** Data Science Club (Vice President), Mathematics Faculty Orientation Leader, Computer Science Club, Tech+

EXPERIENCE

Garage (YC W24), *Software Engineering Intern* | New York City, NY *Jun. 2024 - Aug. 2024*

- Built website features in Next.js to improve the buyer/seller experience, and fully architected a recommendation system for listings
- Improved engagement & site traffic by 61% (to 1000+ DAUs), and created an AI-based truck appraisal tool with 92% price accuracy

Royal Bank of Canada (RBC), *Software Developer Intern* | 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

York Region Presidents' Council, *Chair* | York Region, ON *Jul. 2020 - Sep. 2022*

- Led a team of 12 to represent 128,000+ students across the York Region DSB, hosting monthly events to gather student input
- Helped reform the board's Mental Health and Addictions Strategy, resulting in an additional $1 million in mental health funding

SKILLS

Languages/Libraries: Python, JavaScript/TypeScript (Next.js, Express.js, React), Java, C, Swift, Racket, SQL, HTML/CSS, Pandas
Tools: Cloud Firestore, Azure/AWS, Linux, Git, Figma, VS Code, LaTeX, Microsoft Office (Excel, Word), Google Workspace/Cloud

PROJECTS

Encore: *React TS, Next.js, Tailwind CSS, Express.js, Supabase*

- Developing a search and discovery engine for shopping anything secondhand (KAYAK but for online thrifting) - trysecondhand.com
- Working with a team of two engineers to aggregate results from over 100 resale sites; currently at 6,000+ monthly active users

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

- Created 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%

HONOURS

First Place in Canada & Second Place Internationally, 2023 FBLA NLC Competition (Entrepreneurship Category)
2023 Schulich Leader Scholarship Offer ($100,000), McGill University (School of Computer Science)
Certificate of Distinction, 2023 Canadian Computing Competition (Senior Division, Top 25%)