

Yatin Kapur

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EDUCATION

- **University of Waterloo** | Bachelor of Computer Science - Data Science Option Expected 2021
 - **Coursework:** Algorithms & Data Structures (1-2), Object Oriented Principles, Compilers, Probability, Optimization, Combinatorics, Calculus (1-3), Linear Algebra (1-2), **GPA:** 80/100
- **Wilfrid Laurier University** | Bachelor of Business Administration - Finance Specialization Expected 2021
 - **Coursework:** Finance (1-2), Microeconomics (1-2), Accounting, **GPA:** 10/12
 - **Undergraduate Research Assistant:** Developing pipeline to extract and analyze insider trading data

SKILLS

- **Languages:** Python, C++, JavaScript, SQL, Assembly
- **Frameworks & Libraries:** Django, Flask, D3, Numpy, Pandas, SKlearn, Scipy, Matplotlib
- **Tools:** JupyterLab, Git, Excel, Google Cloud Platform, AWS Athena, Snowflake

EXPERIENCE

The Globe & Mail | Data Analyst Intern Toronto | January - April 2019

- Wrote load scripts, updated, and created a unified table to increase Tableau query performance by 22%
- Developed linear, lognormal, and seasonal models to forecast revenues for the next 18 months
- Assisted data engineers in truncation of impressions table to optimize storage and decrease execution times
- Led shift of UI environment to Metabase, bringing monthly expenditure to \$0 and improving query feedback
- Architected new database design and remodelled product and ad data for efficient storage in Snowflake

Toronto FC | Analytics & Software Engineering Intern Toronto | January - April 2018

- Applied minimum cost perfect matching to analyze player movement for 120,000+ frames per game
- Analyzed tactical concepts such as half-spaces & team blocks by recreating matches in 2D with matplotlib
- Built Django tool to optimize xG model by collecting defender data and increasing data granularity by 32%
- Designed a D3.js dashboard to show Z-scores for a season's worth of data for coaching & half time analyses
- Created win probability calculator using logistic regression model using 7+ years of match data

Indigo Books & Music | QA Intern Toronto | May - August 2017

- Managed shipping logistics, label printing, and procurement logic using SAP
- Programmed and executed over 100 test cases and reported bugs to JIRA
- Applied regression, unit, and black box testing to validate web store requirements
- Curated SQL queries to prepare and aggregate vendor, product, and shipping data

PROJECTS

Leading, Trailing | Python, Flask, D3, SQL, SKLearn

- Created web tool for data visualization of time spent leading and trailing for each game in the Premier League from 1997-2018, developed classification model to predict final positions using this metric

Password Analysis | Python, Jupyter, BeautifulSoup, Matplotlib, Pandas

- Conducted entropy analysis on a sample of 61,682 passwords to decipher strength and wrote script to increase password entropy by 31.24%

ACHIEVEMENTS

IBM Consulting Competition Winner | Placed 1st out of over 100 teams and 500 participants

CONCACAF Champions League Finalist | Part of Toronto FC's front office during the CCL run