Yatin Kapur

yatinkapur.com | ykapur@uwaterloo.ca | github.com/yatin-kapur | (647) 924-1698

EDUCATION

- **University of Waterloo |** Bachelor of Computer Science - Data Science Option 2016-2021
  - **Coursework:** Algorithm Design, Object Oriented Principles, Compilers, Probability, Optimization, Combinatorics, Calculus (1-3), Linear Algebra, **GPA:** 3.22/4
- **Wilfrid Laurier University |** Bachelor of Business Administration - Finance Spec. 2016-2021
  - **Coursework:** Finance (1-2), Microeconomics (1-2), Accounting, **GPA:** 10/12

SKILLS

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

EXPERIENCE

Toronto FC | Analytics & Software Engineering Intern Winter 2018

- Developed model with scipy to find line-breaking, and penetrative passes for player impact & scouting
- 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 Summer 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, developing model to predict points based on this metric

Quadris | C++

- A tetris clone played in non-real time created using object oriented principles and design patterns, visual display via XQuartz

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
- **Principal's Award |** Delivered public talk to 200+ high school students about analytics in sports