Eric Du

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PROGRAMMING SKILLS

- **Languages**: C, C++, Javascript, HTML, CSS/SASS, Python, Racket, Java

- **Libraries & Technologies**: React, Bootstrap, Git, Bash, TensorFlow, Keras

ACCOMPLISHMENTS

- **2020 Canadian Open Mathematics Competition (Top 75 Scorer) -** Canada's premier national mathematics competition. Received an invitation to the Canadian Mathematical Olympiad(CMO)

- **2021 American Mathematics Competition (Top 5%) -** Received an invitation to compete in the American Invitational Mathematics Examination (AIME)

- **2020 Canadian Senior Math Contests (Top 0.5%) -** Achieved Honor Roll

EXPERIENCE

- **Bridge Club - Vice President** Sept. 2018 – June 2021
  - Designed weekly lessons for **50+** members and increased club membership by **300%** over tenure
  - Organized **10+** school-wide tournaments with the support of the platform, Bridge Base Online

TECHNICAL PROJECTS

- **Personal Website ⬡ %** | *React-Bootstrap, SASS* May 2022
  - A responsive website hosted on GitHub Pages designed to showcase my portfolio

- **Competitive Coding ⬡** | *C++, Java* Sept. 2019 −Present
  - Repository of solutions written for various contests (Codeforces, Google Kick Start)
  - Experience with numerous data structures (stack, queue, linked list, trees) and algorithms (sorting, searching, dynamic programming, recursion, etc.)

- **RPG Dungeon ⬡** | *Java* May 2020
  - A 2-D dungeon crawler game made with Java Swing and designed following Object-Oriented Principles

- **NBA Box Score Predictor ⬡** | *TensorFlow, Keras* May 2022
  - A simple sequential machine-learning model made with TensorFlow and Keras to predict the outcome of games based solely on the final box-score stats of the home team

- **HaystackFs ⬡** | *Python, Discord.py* Sept. 2021
  - Implemented a feature which displays the results of searches with Discord.py's multi-page embeds

EDUCATION

- **University of Waterloo** Sept. 2021 – Present
  Bachelor of Computer Science Kitchener, ON
  - Relevant Courses: Designing Functional Programs (Advanced), Algorithm Design and Data Abstraction, Logic and Computation, Object-Orientated Software Development
  - Scholarships: President's Scholarship of Distinction ($2000), Trudy Byma Entrance Scholarship ($1500)
  - Faculty Average: **95%**