Eric Zhang

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SKILLS

Technical Skills: *Python, Java, C/C++, HTML, CSS, JavaScript, SQL, Racket, Data Structures and Algorithms, Object Oriented Programming*

Tools and Frameworks: *Visual Studio Code, Git, GitHub, React.js, Node.js, NetBeans, Eclipse, Jest, Jira, Excel*

PROJECTS

Personal Website ↗ | *React.js*   2022
- Created a website using the React JavaScript library to showcase my skill set and portfolio
- Deployed the web page using GitHub pages to make it accessible across the web

Bullet Heaven Game ↗ | *Java*   2022
- Developed a 2D scrolling shooter game using Java object-oriented programming
- Created a graphical user interface with Java Swing to create appealing visuals

Chess Simulator ↗ | *C++*   2022
- Developed a fully functional chess program using C++ to simulate a chess game virtually
- Implemented algorithms to check for checkmate and stalemate by considering prospective board configurations

EDUCATION

University of Waterloo   Waterloo, ON
Candidate for Bachelor of Computer Science, Honours, Co-operative Program   *Sep. 2022 - Apr. 2027*
- GPA: 4.0
- Relevant Courses: Designing Functional Programs, currently taking Elementary Algorithm Design and Data Abstraction

EXPERIENCE

Computer Society Vice President   Sep. 2019 - Jun. 2022
Thornhill Secondary School   *Thornhill, ON*
- Taught data structures and algorithms such as Dijkstra's algorithm, segment trees and Fenwick trees to 40+ students to promote competitive programming
- Authored programming problems and worked on front-end design for the club website tssoj.ca to improve user experience
- Placed first on the tssoj.ca leaderboard out of 500+ students by solving competitive programming problems

Math Society President   Sep. 2019 - Jun. 2022
Thornhill Secondary School   *Thornhill, ON*
- Delivered lectures to 30+ students about algebra, geometry and trigonometry to support student learning objectives
- Collaborated with teachers and school executives to schedule club meetings and set up math contests
- Leveraged teaching software to host weekly club meetings online to promote learning during the COVID-19 lockdown

ACHIEVEMENTS

3X Canadian National Math Team Competitor   2020, 2021, 2022
Canadian Mathematical Olympiad (CMO) with a score of 13 in 2021

Senior Canadian Computing Competition Honor Roll   2022
School Champion with Highest Score of 40 at Thornhill S.S.

University of Waterloo Sir Isaac Newton Physics Contest   2021
21st worldwide out of 1203 participants   *Top 2% of contestants*