Ethan Sum

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Technical Skills

Languages | Python, JavaScript, HTML/CSS, Bash, C, Java
Frameworks/Technologies | Django, JQuery, Git, Bash Bootstrap, JavaFX

Work Experience

Royal Bank of Canada | Toronto, Ontario   *May 2023 - Dec 2023*
Developer, Quality Engineering Experience
- Upgraded and managed package dependencies for an in-house Test Automation framework, resulting in improved performance and security. Engineered several enhancements and bug-fixes with the Django framework to optimize user experience.
- Participated in a POC for the GenAI code assist tool CodeWhisperer, testing its capabilities in unit test generation
- Analyzed SonarQube logs to determine root causes of SonarQube failures on RBC's in-house CI/CD pipeline. Played a key role in reducing SonarQube failures as part of a broader initiative to consolidate SonarQube instances across RBC.

Education

University of Toronto   *2021 - 2026 (Expected)*
Bachelor of Science, Computer Science and Statistics + PEY Co-op
- GPA: 3.87 / 4.0
- Relevant Coursework: Software Design, Software Tools and Systems, Data Structures and Analysis, Intro to Information Security, Computer Organization, Probability and Statistics

Personal Projects

Collaborative Tetris | Oct 2022 - Dec 2022
Group Project / Software Design Course   *Java | JavaFX | Git*
- Used several popular OOP design patterns to implement the popular game Tetris with 3 other developers of the course of several sprints
- Drafted user stories, UML diagrams, and timelines in accordance with Agile development principles
- Used Git to collaborate with 3 other developers to push, commit, and merge work into a remote repository

Boggle Game | Sept 2022 - Oct 2022
Recursive Word Search Algorithm / Software Design Course   *Java | Git*
- Used Java to recreate the word game Boggle for UofT's software design course
- Achieved a perfect score by creating a time efficient recursive word search algorithm
- Used Git to organize software version and keep track of progress

Pokedex Application | July 2022 - Aug 2022
Pokemon Web Application   *JavaScript | HTML | CSS*
- Used JavaScript and knowledge of APIs to collect and display data in an orderly manner from PokeAPI
- Used HTML/CSS to create a dynamic visual interface
- Manipulated the DOM using JavaScript to update the Pokedex when the user refreshes the screen

Extra/Co-Curriculars

Academic Tutor | Sept 2020 - June 2021   *St. Marcellinus Secondary School*
- Aided students by explaining difficult concepts in a digestible manner
- Tutored in subjects such as Calculus, Advanced Functions, and Computer Science

Interests

Activities: Investing, Calisthenics, Piano, Reading, Teaching/Tutoring