Pranshu Patel

University of Toronto | 3rd Year Computer Science

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Education

University of Toronto

PURSUING B.S. IN COMPUTER SCIENCE (MINOR IN MATHEMATICS AND STATISTICS)

Class of 2023

October 2016 - April 2020

- Dean's List Scholar 2018
- Revlevant Coursework: Algorithms and Complexity, Operating Systems, Software Design, Intro to Information Security, Theory of Computation, Probability and Statistics, Data Structures and Analysis

Projects _

Bulk File Manager

Solo April 2020

- Developed a bulk file management system written in **Java**, utilizing **JavaFX** to allow users to conveniently perform useful actions on a large group of selected files such as renaming, relocating, merging, etc
- · Implemented a smart renaming system that renamed multiple files at once based on user preferences
- Utilized MVC structure and observer design pattern in order to maintain concise and reusable code

ColourBlock

DESIGN TEAM December 2019

- · Worked with a team of 5 to develop a cloned version of the popular computer game Tetris using PyGame
- Created a work breakdown structure in order to plan out required tasks and corresponding deadlines
- · Presented a design review plan to an audience, highlighting important design decisions chosen by the team

Reversi

GROUP October 2019

- Worked with a team of 4 to create a GUI application of the board game "Reversi" written in Java
- Developed and utilized **greedy algorithms** to implement an AI bot for increased level of difficulty
- Used **design patterns** such as Factory, Visitor, and Observer in order to make group collaboration easier and more effective
- Practiced scrum and agile development methodology with team of 4
- Utilized git for version control

Phone Map

LEAD COACH

Solo March 2019

- Developed a **Python** application that displayed a filter-based map of calls made in the Greater Toronto Region
- · Parsed through a JSON file in order to retrieve information from over 500 different calls such as timestamps, length of calls, bills, etc
- Effectively used **object oriented programming** to ensure code conciseness and re-usability

Work Experience _____

Mathnasium Milton, ON

MATH INSTRUCTOR

June 2019 - September 2020

- Worked with a group of instructors to develop important mathematical skills for children aged 8-17 through focus on fundamental concepts
- Designed individualized learning plans to target the student's specific areas of weaknesses

• Hosted meetings with parents to discuss their student's progress and future plans

Pakmen Volleyball Club

Mississauga, ON

- Coached weekend volleyball house leagues consisting of children of various ages and skill levels
- Led a team of 3-4 coaches to ensure player development and enjoyment.
- Ran weekly summer camps for children of ages 6-13

Technical Skills _

Programming LanguagesPython, Java, C, Bash, TeX

Tools and Technologies Eclipse, PyCharm, PyGame, VSCode, JavaFX, Git, Logism, LaTeX