

Pranshu Patel

UNIVERSITY OF TORONTO || 3RD YEAR COMPUTER SCIENCE

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Education

University of Toronto

PURSUING B.S. IN COMPUTER SCIENCE AND MINOR IN MATHEMATICS

Expected Graduation: April 2023

- **Relevant Coursework:** *Ongoing:* Algorithms and Complexity, Operating Systems, Intro to Information Security
Completed: Data Structures and Analysis, Software Tools and Systems Programming, Software Design, Theory of Computation.

Technical Skills

Programming Languages and Skills Python, Java, C/C++, HTML, CSS, JavaScript, TeX, Linux OS

Tools/Libraries/Frameworks PyGame, JavaFX, Bootstrap, Leafletjs, Git, Logism, LaTeX, Eclipse, PyCharm, VSCode

Projects

Wildfires Global - NASA SpaceApps Hackathon

TEAM

October 2020

- Created a web application that extracted real-time data from NASA Fire Map servers to deliver information about the nearest detected wildfire
- Utilized **NASA FIRMS Web Mapping Services** and **GIBS API** to integrate the wildfires on an interactive map along with various satellite layers
- Developed front end using **HTML, CSS, Javascript, Bootstrap** and **Leafletjs**. Used **jQuery** to extract and analyze the wildfire data from CSV files

Bulk File Manager

INDIVIDUAL

January 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

GROUP PROJECT - CSC290

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 PROJECT - CSC207

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 MVC, Factory, Visitor, and Observer to maintain flexible and reusable code for project efficiency
- Practiced **scrum** and **agile development methodology** with team of 4. Utilized **git** for version control

Work Experience

Mathnasium

Milton, ON

MATH INSTRUCTOR

June 2019 - September 2020

- Worked with a team of instructors to develop fundamental mathematical skills for children aged 8-17
- **Designed learning plans** to help upper level students with difficult concepts, such as Functions, Calculus, and Data Management
- Played a crucial role in the **transition from in-person to online tutoring** during the COVID-19 pandemic. Responsibilities included maintaining schedules, moderating online servers, as well as training colleagues and clients on proper use of the online system

Pakmen Volleyball Club

Mississauga, ON

LEAD COACH

October 2016 - April 2020

- Coached weekend volleyball house leagues for children of various ages and skill levels
- **Served as the lead coach** for a team 3-4 coaches to ensure player development and enjoyment
- Led weekly summer camps with a team of 6-8 coaches for children of ages 6-13