FAISAL SHAIK

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EDUCATION

University of Toronto

Honours Bachelor of Science in Computer Science, Physics, and Mathematics. GPA: 3.61/4.0 Part of the PEY co-op program.

Awards

- Dean's List Scholar (2023): Cumulative GPA of 3.50 or higher after completion of a year.
- University of Toronto Scholar's Award: Merit based award for being one of the most outstanding students to apply.

EXPERIENCE

TeraGo Networks

Network Technician

• Troubleshooted client IP connectivity issues as part of a team, fixing **70%** of problems before expected time.

• Installed, upgraded, and troubleshooted CISCO switches, routers, PDUs, and general ethernet and fiber optic connections.

PROJECTS

NoteNinja | Java, Gradle, JSwing, JUnit, Glot.io, GPT-3, Mockito, GlassFish, Clean Architecture, OOP

- Led a team of 4 in developing a note-taking app tailored for computer science students as the head coder.
- Created the entire front end for the text editor, providing seamless note searching using JSwing.
- Implemented a code snippet entering system where users may type in and run Python code using the Glot API.
- Streamlined real time AI assistance by integrating GPT-3 into the text editor, providing quick access for users.
- Created most of the back end for the application and contributed to the data persistence layer.

Insane Pong | JavaScript, HTML, CSS, Canvas, Touch Events, OOP

- Developed an advanced pong game with single and multiplayer modes using **Canvas**, handling both **frontend** and **backend**.
- Designed and implemented advanced features such as selectable difficulty levels and slider boosts through dashing.
- Implemented a flexible control system with customizable key binds, mouse drag, and on-screen buttons.
- Created an engaging user interface with several interactive views focusing on user experience.
- Optimized the game for mobile devices using the Touch Events API, highlighting consideration for diverse user platforms.

Rokoban | RISC-V 32, Ripes, Assembly, Linked Lists Data Structure, OOP

- Developed a RISC-V 32-based Sokoban implementation with an LED matrix and DPAD controls via Ripes.
- Implemented linked lists in RV-32 for dynamic memory allocation and O(n) sorting for a multiplayer ranking system.

Huffman Tree File Compress | Python, Pytest, Heap Data Structure, OOP

- Implemented a file compression and decompression system using the Huffman Tree algorithm.
- The algorithm enhanced data storage efficiency by 50%, facilitating seamless file transfers.
- Used heaps to increase efficiency of file compression speed by 5800%.

Treemap Visualizer | Python, Pytest, Pygame, Tree Data Structure, OOP

- Created a Python program which displays a hierarchical visualization of system files and directories.
- Implemented a user-friendly interface with collapsible and expandable elements for easy folder navigation.

TECHNICAL SKILLS

Languages: Python, Java, C, HTML/CSS, JavaScript, Shell Script, RISC-V 32

Developer Tools: Gradle, Maven, Git/GitHub, Ubuntu, VS Code, JetBrains IDEs, Ripes, PowerShell, cmd, Bash

Technologies/Frameworks: Node.js, PyLab, NumPy, Matplotlib

APIs: GPT 3, Glot.io, Touch Events, Canvas, Google Sheets

Soft Skills: Fluent in English, Urdu, Hindi, and some Punjabi. Hard working and excellent team cooperation skills.

RELEVANT COURSES

CSC108 (Computer Programming), CSC148 (Computer Science), CSC207 (Software Engineering), CSC209 (Systems Programming), CSC236 (Theory of Computing), CSC258 (Computer Organization), CSC263 (Data Structures), MAT157/159 (Real Analysis), MAT235 (Multivariable Calculus), MAT240 (Algebra), STA256 (Statistics).



Sep. 2022 – Present

Jan. 2021 – Sep. 2023

Brampton, Ontario