SHAKIR ABDULLAYEV

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Education

University of Toronto   **Sep. 2019 – May 2024**
Honors Bachelor of Science - Computer Science Specialist and Business Minor (Current GPA: 3.44)   *Mississauga, Canada*

Awards
UTM Entrance Scholarship - Merit based award for students with a distinguished academic record

Relevant Coursework

- Software Design
- Computer Organization
- Assembly Programming
- Complexity Analysis
- Data Structures
- OOP

Technical Skills

Languages: Python (Fluent), Java (Intermediate), Kotlin (Beginner), C/C++(Beginner), Assembly (Beginner)
Developer Tools: VS Code, Android Studio
Technologies/Frameworks: GitHub, Scrum Agile Methodology, Regex
Routing and Switching: IP Suite, OSI Model, EIGRP, OSPF, TCP/IP

Projects

BrainTrainer Android Quizzing App | *Java, Android Studio*   **September 2021**
- Created an **Android, Java** with user performance recording.
- Implemented time restrictions by utilizing android libraries.
- Integrated randomization to create questions instead of predetermination.

Potato Timer Android App | *Java, Android Studio*   **September 2021**
- Designed a sample **Android, Java** timer app inspired from the popular "Pomodoro" Timer app.
- Integrated android layout items for ergonomics and freedom to fully control timer.
- Incorporated **android libraries** to have end-of-timer signals.

TrieTree Dictionary Program | *Python*   **August 2021**
- Utilized **Trie Tree** data structure to store dictionary of words.
- Designed autocorrect and autocomplete algorithms utilizing the Trie Tree dictionary.
- Created in-depth **unit-testing** which **optimized code to 95% correctness.**

Steam-like Marketplace Application | *Java*   **April 2021**
- Collaborated in a **group project of four** using **Java** to develop the **back-end of an online game store.**
- Worked on project using the **Scrum Agile Development Methodology** which included 2 **sprints.**
- Created the architecture of the application incorporating multiple **Object-Oriented Programming** techniques.
- Integrated **Factory, Singleton, Strategy** design patterns to code-base.
- Incorporated **Regex** techniques to take data from front-end and update back-end database.
- Developed in depth **unit-testing** for functionality of the application.
- Actively worked with **Git version control** during project

Huffman Lossless Compression Algorithm | *Python*   **March 2020**
- Developed a **Huffman Tree** and created a dictionary of priority for every byte in a file.
- Implemented an algorithm to convert every byte to a compressed string of 0s and 1s.
- Utilized an algorithm to use Huffman Tree decompression on compressed files.

Experience

Networking intern at BestComp Group Azerbaijan | *Routing and Switching*   **July 2018**
- Contributed to a project of the Ministry of Energy of Azerbaijan
- Utilized networking technologies to construct part of the internal network using **Routing and Switching** technologies
- Configured networking devices as per project requirements.