

# Aarham Haider

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## TECHNICAL SKILLS

**Languages & Frameworks:** C# • ASP.NET MVC • JavaScript • HTML5/CSS3 • React • Vue • C/C++ • Python

**Technologies:** Git • MS SQL Server • PostgreSQL • Linux • SQLite • Azure • NUnit • JIRA • Docker

## EDUCATION

**Simon Fraser University**

**Expected Graduation: May 2025**

*Bachelor of Applied Science in Computing Science*

## PROJECTS

**MyPiano**

**Aug 2023 - Oct 2023**

Personal Project | [Github](#)

C# | JavaScript | ASP.NET | Vue | PostgreSQL | Docker

- Developed a **C#** and **JavaScript**-based full-stack web app, enabling interaction with a piano board in the browser.
- Engineered **REST Web API** endpoints using **ASP.NET** to handle registration, user authentication, **JWT** authentication, and audio requests, while providing client-side access using **CORS**.
- Designed the client side through intricate assembly of views and components in **Vue**.
- Utilize **Docker** images for the containerization of MyPiano's backend platform for optimal scalability.
- Employed the use of **PostgreSQL** and **Entity Framework** to efficiently store and retrieve audio records.

**PalmPlayer**

**Mar 2023 - Jun 2023**

Personal Project | [Github](#)

C# | .NET WPF | SQLite | NUnit

- Developed a music player app in **C#** and **.NET WPF** which supports MP3 playback, custom playlists, and YouTube media downloads.
- Integrated **XAML UI**, business logic, object models, and database components using the **MVVM** architecture.
- Applied the use of **SQLite** and **Entity Framework** to manage over 100 songs and playlists within a database.
- Conducted thorough unit testing of classes with the **NUnit** testing framework.

**Python Image Editor**

**Nov 2021 -Dec 2021**

Academic Group Project | [Github](#)

Python | NumPy | AGILE | JIRA

- Led the development of a desktop client application in **Python** that applies filters to a JPG/PNG input.
- Implemented a **computer vision** algorithm which detects and locates a yellow fish based on its HSV values.
- Managed workflow through the use of **AGILE** Teamwork principles to efficiently construct the application.
- Leveraged the usage of **JIRA** to spearhead our **Kanban** approach for development.

## EXPERIENCE

**Peer Tutor**

**May 2023 - Aug 2023**

*Simon Fraser University, Burnaby, BC*

- Collaborated with a tutoring team to lead practice labs for first year computer science students.
- Compiled and marked over 100 lab submissions using **Linux** OS .
- Clearly explained course concepts, such as data structures, sorting algorithms, and object-oriented programming design during tutoring hours.