

# Asjal Ahmad

San Antonio, TX | 210-589-0442 | aahmad@trinity.edu | linkedin.com/in/AsjalA | github.com/aahmad09

## EDUCATION

**Trinity University**, San Antonio, TX

Bachelor of Science in Computer Science

Minors in Data Science and Mathematics

May 2024

Cumulative GPA: 3.966 | Major GPA: 3.966

## SKILLS

**Programming Languages:** Scala, Python, JavaScript, CSS, HTML, Git, XML, Visual Basic, C, Prolog

**Operating Systems:** Windows, Linux, OS X, Android

**Environments:** IntelliJ IDEA, Microsoft Visual Studio Code, Vim

**Typesetting:** LaTeX

**Applications:** Microsoft Office Suite, Command line, Drupal 8, Bash

## PROJECT EXPERIENCE

**StarMesh**, Computer Science II, Trinity University

January 2024 – Present

- Develop and design a GUI objective based game using Scala with tower defense mechanisms, team non-player-controlled characters, and a basic projectile system.
- Establish a networking system using Sockets and Streams to allow players to join a team in the game and compete against the other team by destroying their tower.

**Multi-user Dungeon**, Computer Science II, Trinity University

January 2024 – Present

- Develop and design a text-based multi-user dungeon game using Scala with course navigation, basic obstacles, and a basic inventory system.
- Establish a basic networking system using Sockets and Streams that allowed other players to join the course, compete against each other, interact with non-player-controlled characters, and type in a chat feature.
- Implement a multi-threaded environment using Akka framework to improve performance on modern computers.
- Utilized XML files for game resources to make data extensible, platform-independent, support internationalization and localization.

## LEADERSHIP EXPERIENCE

*Founder and Head*, **Musaida**, Lahore, Pakistan

June 2019 – Present

- Founded a charity organization to distribute home-cooked food to 50 families per week in impoverished regions around city of 11.1 million residents.
- Organize and administer food pantry operations resulting in a 40% decrease in total spending of \$1-2K/mo.
- Oversaw billboard campaigns to raise awareness about global hunger issues locally.

Further Mathematics Notes, **Student Resource**, Lahore, Pakistan

June – September 2019

- Authored a Further Mathematics Advanced Level book published nation-wide by Student Resource to train students on the Cambridge International AS and A Level Mathematics - Further (9231) course.
- Networked with school admins in the city and put online advertisements on social media to market the product.

## CAMPUS INVOLVEMENT

*Member*, **HOPE Hall**, Trinity University

January 2020 – Present

*Member*, **Alpha Lambda Delta**, Trinity University

March 2020 – Present

## AWARDS

**Trinity University Murchison Scholarship**

2020 – 2024

**Trinity University Scholar**

April 2021

**Trinity University Dean's List**

Fall 2020