

# ALI RABEEA

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## Education

**University of Massachusetts - Amherst**

**Sep. 2019 – May 2023**

*Bachelor of Science in Computer Science*

*GPA: 4.00*

## Relevant Coursework

- Introduction to Algorithms
- Data Structures
- Computer Systems Principles
- Programming Methodology
- Reasoning Under Uncertainty
- Introduction to Computation
- Introduction to Problem Solving with Computers

## Experience

**Interactiva Studios LLC**

**December 2020 – February 2021**

*Software Engineering Mentorship*

*Remote*

- Developed a third-person move-able character in Unity and optimized various physics to standardize for later use.
- Implemented jumping as part of the character's physics and smoothed out the movement to make it feel more natural.
- Collaboratively worked as part of a team on a programming project, and brought new ideas and implementations forward during project deadlines and checkpoints.

**UMass Dining**

**October 2019 – April 2020**

*Food Service Assistant*

*Amherst, MA*

- Cleaned dishes for the dining hall alongside working line and pizza shifts.
- Cooked and served pizza, amongst other foods during shifts to students, professors, and guests in the dining hall.
- Collaboratively worked with others to clean dishes, utensils, and tables before, during, and after hours.

**UMass Student Union**

**September 2021 – Present**

*Front Desk Receptionist*

*Amherst, MA*

- Worked at the front desk mainly answering questions and booking rooms for Registered Student Organizations.
- Solved conflicts in the workplace when they arose with the use of collaboration and leadership.
- Taught new employees the details of their job and aided them whenever they needed extra guidance.

## Projects

**Mosiga | Kotlin, Android Studio**

**September 2021**

- A mobile music player application currently in development using Android Studio and Kotlin.
- Designed a user-friendly minimalistic UI using XML; Implemented functions, data structures, algorithms using Kotlin to use as part of the music player experience and music library; Optimized run-times for quick-search functions.

**MyTVList | Javascript, MongoDB, Express, React, Node, Puppeteer**

**March 2021**

- A web application to store all the TV Shows you have watched, watching, and plan to watch all on one list to track what you have watched. Can also view other user's lists and add them as friends to keep track of their watch lists.
- Developed an algorithm that scrapes all the TV show details from the internet using Puppeteer, including name, genre, date aired, date ended, and picture, and automatically adds all the data onto MongoDB.
- Implemented React as the main front-end visualizer to optimize the UI as more user friendly and accessible.

**Sharendar | HTML, CSS, Django, Bootstrap**

**May 2020**

- A Social Media web calendar aimed at making meetups and meetings easier.
- Optimized secure login functionality by using Django as the main back end to strengthen authentication.
- Incorporated class and function-based views, inheritance of templates, and user permissions to construct the "Sharendar".

## Technical Skills

**Programming Languages:** Java, C, HTML/CSS, JavaScript, Python, Kotlin

**Developer Tools:** VS Code, Eclipse, Google Cloud Platform, Android Studio

**Technologies/Frameworks:** Linux, GitHub, JUnit

## Extracurricular

**HackUMass**

**October 2019, December 2020**

*Attendee*

*Amherst, MA*

- Attended a hackathon for various workshops and worked collaboratively on a project.
- Workshops included Machine Learning, Artificial Intelligence, Cryptography/Cryptocurrency, and Cyber Security.
- Took an introductory course for Android and IOS app development and Python.