

# Syed Hamza Qadri

(470) 929-2857 | sqadri6@gatech.edu | linkedin.com/in/shamzaqadri | github.com/qad114

## EDUCATION

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### Georgia Institute of Technology

Atlanta, GA

*Bachelor of Science in Computer Science, GPA: 4.0*

*Aug 2022 – May 2026*

- Completed Coursework: *Introduction to Computing (Python), Differential Calculus, Integral Calculus*
- Ongoing Coursework: *Introduction to Object-Oriented Programming (Java), Linear Algebra*

## EXPERIENCE

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### Secret Stash

Jun 2021 – Aug 2021

*Data Analytics Intern*

*Karachi, Pakistan*

- Processed and analyzed data using Python and Google Sheets API for an e-commerce startup
- Used Python's *difflib* module to correct spelling differences in 1500+ customer names and assign unique IDs
- Calculated which cities were most popular among buyers and adjusted for population
- Determined various metrics including buyer-seller overlap and customer rankings

### Computing Club at Karachi Grammar School

Sep 2021 – Mar 2022

*Secretary-General*

*Karachi, Pakistan*

- Organized rounds and designed math and programming questions for intra- and inter-school competitions
- Managed and moderated the club's WhatsApp group and Discord server, each with 120+ members
- Liaised with 30 technical, marketing, and logistics team members during the club's flagship inter-school event

### RoboJackets

Sep 2022 – Present

*RoboCup Team Member*

*Atlanta, GA*

- Attended talks and live demonstrations about soccer bot functionality and external software layer
- Configured ROS2 development environment and made basic changes to existing C++ codebase

## PROJECTS

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### Nintendo Game Boy Emulator | C

- Developed an emulator for the Nintendo Game Boy console, capable of running several commercial games
- Handled audio and graphics rendering via SDL2 library
- Implemented advanced features such as interrupts and memory bank switching to allow complex games to run
- Passed 7 out of a set of 11 CPU instruction accuracy tests, as well as all instruction timing tests

### Android Media Player Demo | Java, Android Studio

- Developed an Android application to play local and remote audio files
- Implemented audio playing functionality using ExoPlayer library
- Built UI using components such as LinearLayout, RecyclerView, FloatingActionButton, etc.

### Sudoku Board Solver | Python, Qt

- Developed a desktop application to solve an incomplete Sudoku board
- Used a backtracking algorithm to search for different possibilities until the solution could be found
- Built GUI using PyQt with QGridLayout to allow users to input board and view solution in grid format

## SKILLS

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**Languages:** Python, C, C++, Java, Bash, HTML/CSS, JavaScript

**Developer Tools:** Git, Visual Studio Code, IntelliJ/Android Studio

**Platforms:** Linux (Ubuntu, Arch), Windows, macOS