

# Syed Athar

Software Developer

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## Skills

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**Technical Skills** C, Python, Java, SQL, Scheme, CSS, HTML, JavaScript, Scala, R, Assembly Language

**Software** Adobe Photoshop, Adobe Lightroom, Microsoft Office

## Education

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### DePaul University

Chicago, IL

- Bachelor of Computer Science (Concentration: Software Development)
- GPA: 3.8/4.0
- Expected Graduation: Dec 2021

## Projects:

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### Snake Game

- Used Python's Turtle Module to build Snake Game from scratch
- Implemented the movements of snake and inspecting its location for possible collisions
- Enforced scoring mechanisms, specifically introducing high scores to retain the interest of a player

### Flappy Bird

- Used Python's Pygame Module to make Flappy Bird
- Applied rotation, movements, animation of objects for a seamless game environment

### Tic-Tac-Toe

- Built Tic-Tac-Toe from scratch by utilizing Java's GUI library to construct the game's layout and handling action events
- Hands random first turns to the players and checks the winning combo after each turn

### Calculator

- Used Python and Java's GUI to create the layout of the calculator in both languages
- Implemented the fundamental computation of a calculator and tested it to ensure its correct functionality

## Relevant Coursework

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### Data Structures

- Formed algorithms for manipulating stacks, queues, linked lists, hash tables, trees, and graphs
- Analyzed time complexity and performances of algorithms to present the most efficient solution to a problem

### Computer Systems

- Conception of how integers, strings, arrays and other structures are represented and manipulated at the machine level
- Reading, comprehending, and debugging Assembly code in GNU Assembler format.

### Concepts of Programming Languages

- Discerning the functional and object-oriented programming paradigms
- Solving problems utilizing functional and object-orientation paradigms
- Critically assess the most efficient paradigm and language for designated problem

## Experience

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### Volunteer Hyde Park High School

(Jan 2020 – March 2020)

- Volunteered as a Computer Science Teaching Assistance
- Assisted underprivileged kids in learning the basics of programming
- Worked closely with struggling students by ensuring they did not fall behind their peers

### Dollar General (Sales Associate)

(Oct 2017- June 2021)

- Actively listened to customers' need and communicated with them to resolve their concerns
- Worked together with coworkers to keep track of inventory, remember customer preferences, and enhance sales quotas
- Trained new employees and helped them settle into the workplace