

# AHMED MUHARRAM

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## EDUCATION

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### Bachelor of Science in Engineering in Computer Science

University of Pennsylvania, School of Engineering and Applied Science. Philadelphia, PA

Expected 2026

*Onsi Sawiris Scholar: private merit-based full-ride scholarship for Egyptian students studying abroad*

GPA: 3.45

## RELEVANT COURSEWORK

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### Freshman Year

Programming Languages and Techniques I, Data Structures & Algorithms, Mathematical Foundations of Computer Science, Automata, Computability, and Complexity

### (Upcoming) Sophomore Fall

Artificial Intelligence, Big Data Analysis, Scalable and Cloud Computing, Introduction to Computer Systems

## PROJECTS

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**SURFBALL (C#, Unity)** Built an Android hyper-casual arcade game using Unity. Created 45 levels, achievements, leaderboards, and 3 extra game modes. Published on the Google Play Store.

**Brickbreaker (Java)** Created a customized brickbreaker game that utilized the Java Swing graphics library. Concepts include saving and loading game files, unlockable achievements, leveling/XP system, and randomly generating new stages.

## EXTRACURRICULAR ACTIVITIES

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### Incoming Resident Advisor

University of Pennsylvania

Philadelphia, PA

- Selected among tens of applicants to become a Resident Advisor for the 2023-2024 academic year.
- Will manage a floor of over 40 freshman students. Duties include helping ease the transition from high school to college, resolving roommate conflicts, and event planning.

### Founder and President

King Fahd Computer Science Club

Cairo, Egypt

- Taught 21 students (7-11) programming in C++, computational thinking, and binary.
- Curated 10 sessions and created the curriculum inspired from introductory college courses like CS50 by Harvard.

### Founder and Chairman

TEDxYouth@KingFahdSchool

Cairo, Egypt

- Organized an online licensed TEDx event with 3.5 hours of educational and professional content.
- Achieved a total of 21k minutes watched with 17k views, 2.3k followers, and 88k people reached.
- Led a team of 40 passionate members from 12 schools in total.

## SKILLS

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### Technical Skills

Python, Java, OCaml, C++, C# (Unity), HTML, CSS, JavaScript

### Languages

Full professional proficiency in Arabic and English

## HONORS

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NASA Space Apps Cairo Special Mentorship Award from Nilepreneurs (out of 115 teams/859 participants)