

# Ahmed Muharram

[muharram.dev](https://muharram.dev) ♦ +1 (215) 452-9810 ♦ Philadelphia, PA ♦ [muharram@seas.upenn.edu](mailto:muharram@seas.upenn.edu)

## EDUCATION

---

### Bachelor of Science in Engineering in Computer Science

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

May 2026

**Relevant Coursework:** *Analysis of Algorithms, Data Structures & Algorithms, Discrete Math, Theory of Computation, Big Data Analysis, Computer Systems, Multivariable Calculus*

## EXPERIENCE & LEADERSHIP

---

### Founder and President

King Fahd Computer Science Club

Cairo, Egypt

- Taught 21 students (7-11) programming in C++, computational thinking, binary, front-end development using HTML, CSS, and JavaScript, and a brief introduction to algorithms.
- Curated 10 sessions and created the curriculum inspired from introductory college courses like CS50 by Harvard. with a front-end web development final project.
- Inspired students to learn more about computer science; left impact that later led to students to compete in the Egyptian Olympiad of Informatics.

### Founder and Chairman

TEDxYouth@KingFahdSchool

Cairo, Egypt

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

### Resident Advisor

University of Pennsylvania

Philadelphia, PA

- Managing a floor of 35 freshman students and 2 faculty members
- Duties include helping students ease the transition from high school to college, responding to emergencies, resolving roommate conflicts, and event planning.

## PERSONAL PROJECTS

---

### [Prodosphere \(HTML, CSS, JavaScript, React.js, TypeScript, Bootstrap\)](#)

- Developed a powerful web application designed as a landing page with 16 different tools and features.
- Added features that can be divided into 5 categories depending on their use: improving default homepages' UI, increasing productivity, easing information retrieval and note-taking, providing entertainment, and facilitating language and communication ([full list of features](#))
- Designed mainly using React, MaterialUI, and Bootstrap; utilized tens of packages and hooks

### [Browser's Labyrinth \(HTML, CSS, JavaScript\)](#)

- Created a captivating web-based game that takes players on a journey through Windows 95-themed world.
- Delivered an engaging storyline through 11 puzzle-based dynamic levels.
- Utilized different branches of mathematics to create precise mechanics and physics using object manipulation.

### [Passport Pilot - Front-end \(HTML, CSS, JavaScript, LeafletJS\)](#)

- Deployed a website that fetches data from JSON and CSV files to get country and travel data.
- Included options to sort countries based on population or GDP and "Visa Mode" to explore travel restrictions between countries

### [SURFBALL \(C#, Unity\)](#)

- Built an Android hyper-casual arcade game using Unity which was published on the Google Play Store.
- Designed 45 levels, achievements, leaderboards, and 3 extra game modes.

## HONORS & FELLOWSHIPS

---

- **Onsi Sawiris Scholar:** merit-based full-ride scholarship for Egyptian students to study in top universities in the U.S.
- NASA Space Apps Cairo Special Mentorship Award from Nilepreneurs (out of 115 teams/859 participants)

## SKILLS

---

### Technical Skills Languages

Java, Python, HTML, CSS, JavaScript, TypeScript, React.js, OCaml, C++, C# (Unity)  
Full professional proficiency in Arabic and English, limited Italian proficiency