

# 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

May 2026

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

## EXPERIENCE & LEADERSHIP

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### Freelance Software Engineer

[Wright Squared, PLLC](#)

*Kansas City, MO*

- Engineered a highly responsive and visually appealing static website for a law firm using React.js, Netlify, HTML, CSS, and JavaScript, emphasizing clear communication of the firm's services, team members, and contact information.
- Developed the website from a Figma design, taking into consideration UI/UX design paradigms to provide optimal UX.
- Increased expected online presence reach by over 200% by easing getting in touch with potential clients.

### 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 programming, algorithms and software engineering.
- 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; Led 2 students to compete in the Egyptian Olympiad of Informatics.

### Founder and Chairman

TEDxYouth@KingFahdSchool

*Cairo, Egypt*

- Led a team of 40 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 transition to college, resolving roommate conflicts, and event planning.

## PERSONAL PROJECTS

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

- Engineered a powerful web application that serves 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](#)).
- Assembled mainly using React, MaterialUI, and Bootstrap; utilized 20+ packages and hooks; focused on UI/UX.

### [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 2-D 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 199 countries' travel data.
- Included 3 options to sort countries by population or GDP and "Visa Mode" to explore travel restrictions between countries.

## HONORS & FELLOWSHIPS

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- 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

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### Technical Skills Languages

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