

# sajeel khan

I'm an undergraduate student and amateur programmer interested in the intersection of computer science and mathematics.

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[sajeelk.github.io](https://github.com/sajeelk)

## experience—

### Shadowing mathematicians

AUG 13-17, 2019

Learned research skills from Dr. Elden Elmanto and Dr. Adeel Khan at Harvard University during a collaborative project in algebraic geometry.

### Majlis Khuddamul Ahmadiyya USA, Social media director, Baltimore chapter

DEC 2019-PRESENT

Manage Twitter account for local Muslim youth group.

### Ahmadiyya Muslim Community USA, Bookstore cashier

AUG 2016-PRESENT

Manage interactions with customers. Update online inventory.

## independent projects—

### Healthcare data migration tool 2019

Built a script for a local healthcare system to process and report half a million raw medical records—physician's preference card surgical data—to be compatible with a new system during a migration process from Meditech healthcare system to Epic. *Using Python.*

### AI: TicTacToe Impossible Bot 2019

Built an AI that implements the recursive minimax algorithm and alpha-beta pruning to determine the best move given any TicTacToe position. *Using Python.*

### Twitter bot: @NewStudyBot 2017

Developed Twitter bot to use artificial intelligence to automatically calculate what new research studies are valid and retweet them, as a service to aid journalists who cover emerging research. *Using Python.*

## honors—

### National Merit Scholarship Corporation 2020

Earned Letter of Commendation for being among the highest-scoring students on the 2019 PSAT/NMSQT.

### Johns Hopkins University, Center for Talented Youth 2017

Earned Certificate of High Honors for being among the highest-scoring students in the 2016-17 CTY Talent Search.

## education—

### University of Maryland, Baltimore County

AUG 2021 - MAY 2025

Computer Science B.S.  
Mathematics B.S.

Accelerated Masters

### Dulaney High School

AUG 2017 - MAY 2021

## relevant coursework—

**Calculus III**, Community College of Baltimore County SPRING 2020

**Linear Algebra**, Community College of Baltimore County FALL 2019

**Calculus I**, University of Maryland, Baltimore County FALL 2018

**Python For Everybody specialization**, University of Michigan FALL 2016

## skills—

**Programming** Python, Ruby, Java  
**Web development** HTML5, CSS3, JS, Bootstrap  
**Machine learning**

## certifications—

**Front-End Web UI Frameworks and Tools: Bootstrap 4**, The Hong Kong University of Science and Technology JUL 2021

**Usable Security**, University of Maryland, College Park FALL 2017