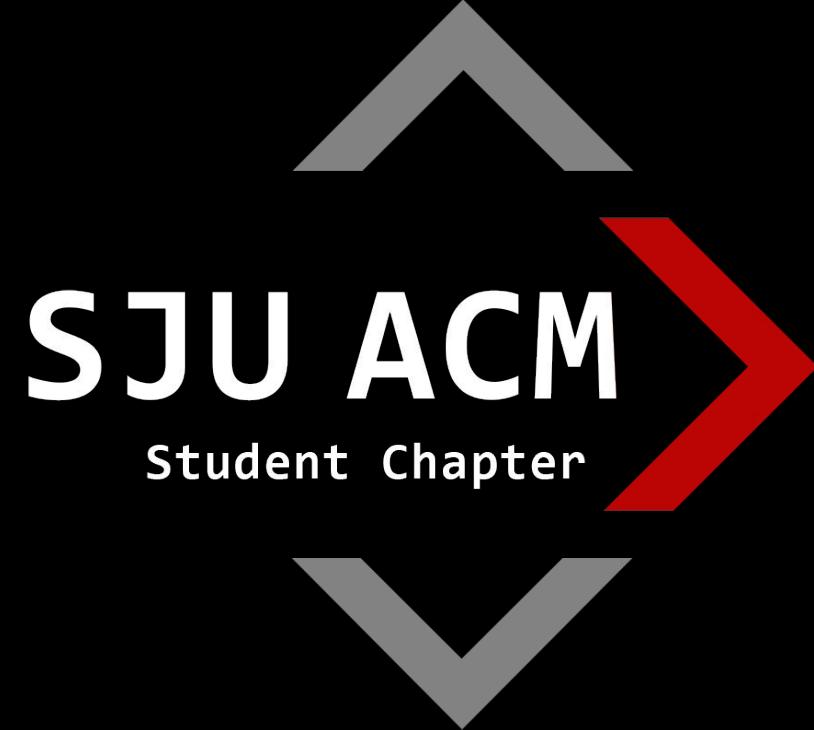
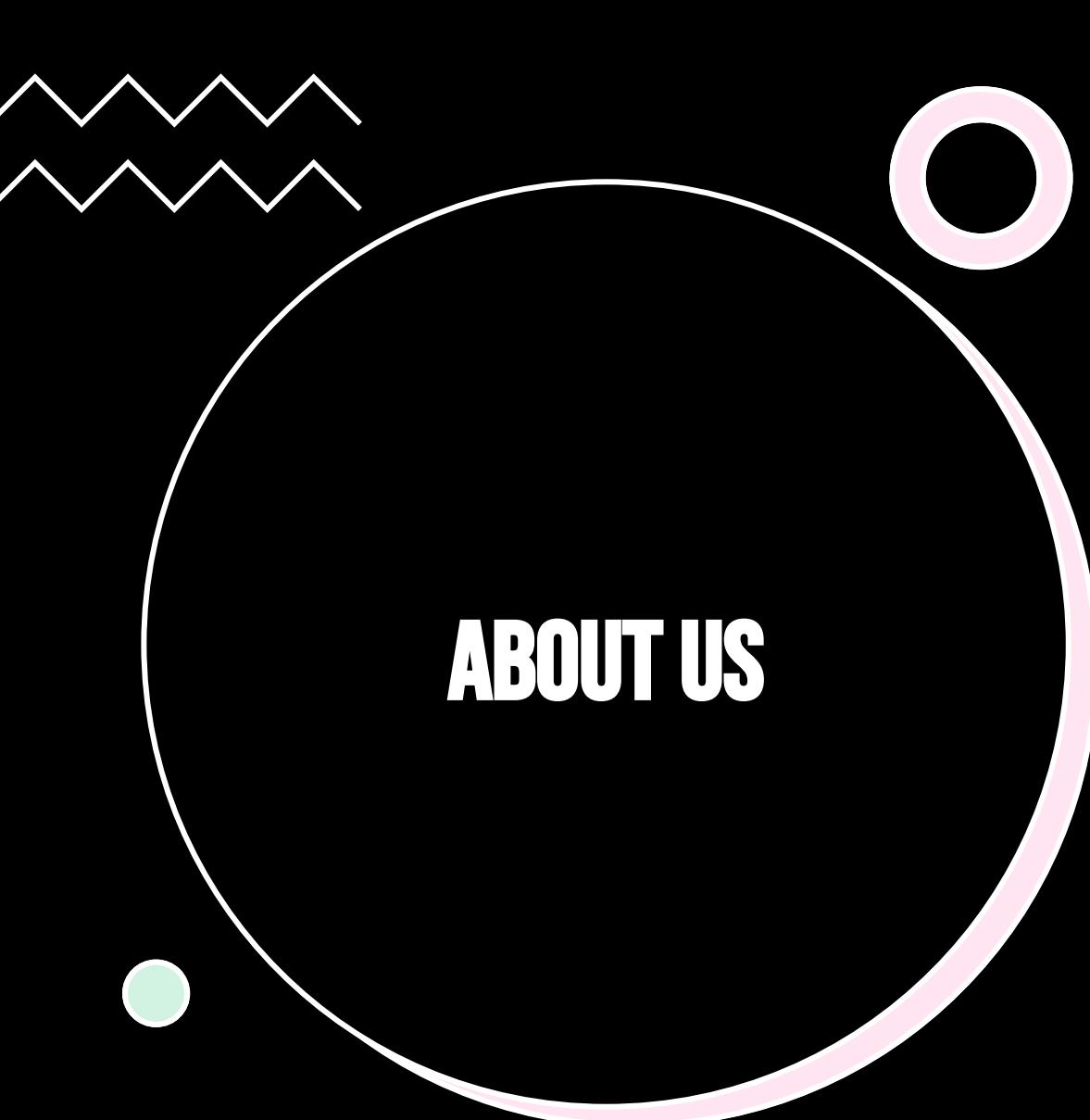




SPRING 2024 SEMESTER KICKOFF

SJU ACM STUDENT CHAPTER





ABOUT US

- WE ARE ST. JOHN'S UNIVERSITY'S PREMIER ORGANIZATION FOR COMPUTER SCIENCE, CYBERSECURITY, INFORMATION TECHNOLOGY, AND ALL THINGS TECH
- WE RUN THE CLUB WITH THE GOAL OF ENHANCING OUR MEMBER'S TECHNICAL AND PROFESSIONAL SKILLS
 - TECHNICAL SKILLS: DEMOS, LABS, LECTURE/INFORMATION SESSIONS, HACKATHONS, CODING COMPETITIONS, ETC.
 - PROFESSIONAL SKILLS: OFFICE TOURS, RESUME REVIEW SESSIONS, INTERVIEW TIPS AND TRICKS, CAREER FAIRS, NETWORKING PANELS



● WHAT IS ACM?

- THE ASSOCIATION FOR COMPUTING MACHINERY (ACM) IS THE WORLD'S LARGEST SCIENTIFIC AND EDUCATIONAL COMPUTING SOCIETY WITH OVER 100,000 STUDENT AND PROFESSIONAL MEMBERS
- UNITING EDUCATORS, RESEARCHERS, AND PROFESSIONALS TO SHARE RESOURCES AND OPPORTUNITIES TO ADVANCE THE FIELD OF COMPUTING AS BOTH A SCIENCE AND PROFESSION



**Association for
Computing Machinery**



NYC ACM STUDENT CHAPTERS

GET TO NETWORK WITH OTHER STUDENTS INVOLVED IN ACM

STUDENT CHAPTERS AT:

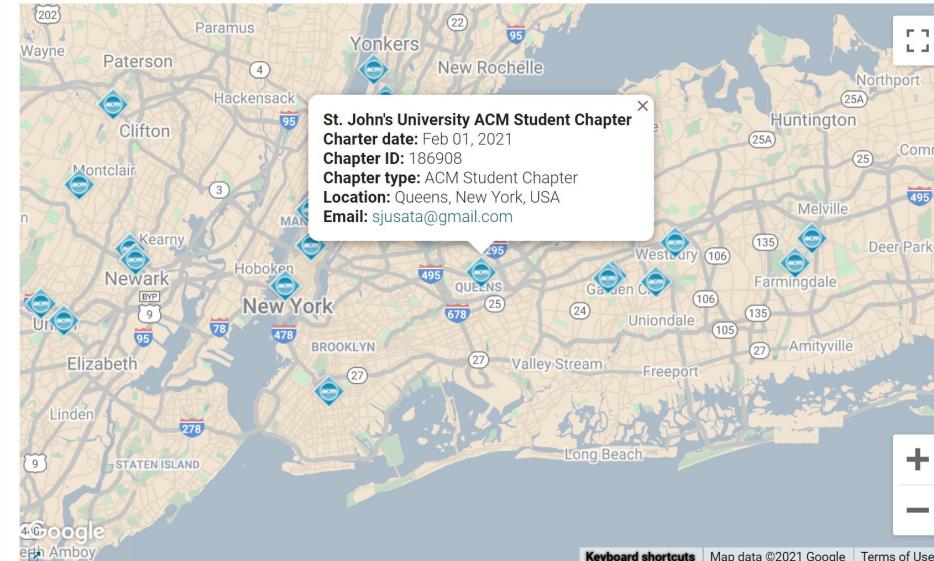
- NYU
- CITY COLLEGE
- HOFSTRA
- NYIT
- QUEENS COLLEGE

PARTICIPATE IN CODING COMPETITIONS AND CYBER HACKATHONS!

SPEAK WITH US AFTER IF THIS INTERESTS YOU!

Find a Chapter Near You

North America USA
New York ACM Student Chapter



ACM Student Chapter
22 Active Chapters

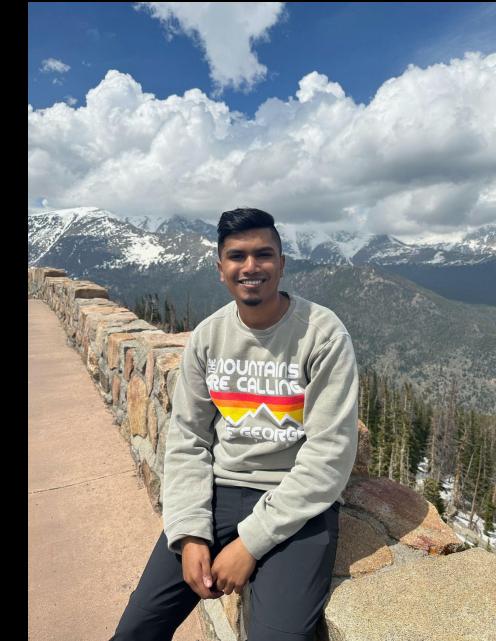




INTRODUCING OUR E-BOARD

RAYMOND | PRESIDENT

- SENIOR MAJORING IN CYBER SECURITY SYSTEMS
- PREVIOUS INTERNSHIP EXPERIENCES:
 - TECHNOLOGY CONSULTING - CYBERSECURITY INTERN AT EY
 - TECHNOLOGY SERVICES INTERN AT MLB
 - EXTERNSHIP AND INTERNSHIP WITH CISCO
 - NON-TECHNICAL EXPERIENCE THAT FOCUSED ON CAREER-BUILDING THROUGH NETWORKING WITH INDUSTRY PROFESSIONALS AND TECHNICAL WORKSHOPS
 - TECHNICAL BACKGROUND BEGAN IN HIGH SCHOOL
 - PARTICIPATED IN COMPETITIONS AND EARNED CERTIFICATIONS
- HUGE METS FAN (UNFORTUNATELY)
- FAVORITE COURSE @ ST. JOHN'S: CYBER THREATS AND DETECTION (CSS-1032) WITH DR. TROJA



JAKE | VICE PRESIDENT

- SENIOR MAJORING IN CYBER SECURITY SYSTEMS
- CAPTAIN OF SJU CYBER TEAM
- PREVIOUS INTERNSHIP EXPERIENCES:
 - INFORMATION SECURITY INTERN (SOC) @ UPS
 - INFORMATION TECHNOLOGY INTERN @ CON EDISON CLEAN ENERGY BUSINESSES
- INTERESTS
 - DFIR (DIGITAL FORENSICS/INCIDENT RESPONSE)
 - SECURITY AUTOMATION
- FUN FACTS
 - HUGE YANKEES FAN (UNFORTUNATELY ??)
 - I HAVE PLAYED THE DRUMS SINCE I WAS 4 YEARS OLD
- FAVORITE COURSE @ ST. JOHN'S: DIGITAL FORENSICS (DFR-1001) WITH PROF. DRAGOS





SONY.



DAVID | INFORMATION OFFICER

- JUNIOR MAJORING IN CYBER SECURITY SYSTEMS
- INTERN, GLOBAL THREAT EMULATION @SONY
 - WORK WITH SONY'S INTERNAL RED TEAM TO SIMULATE REAL WORLD ATTACKS AND IDENTIFY DEEP VULNERABILITIES WITHIN THE SONY GREATER ECOSYSTEM
- SIDE PROJECTS/ACTIVITIES
 - CERBERUS
 - WINDOWS .NET FRAMEWORK, C2 AGENT FOR THE MYTHIC C2 FRAMEWORK
 - MALWARE DEVELOPMENT/RESEARCH
 - LEARNING TO PLAY GUITAR
 - FAVORITE COURSE: FUNDAMENTALS OF CYBER SECURITY (CSS-1005) WITH PROF. CHACKO

TOMAS | TREASURER

- SOPHOMORE STUDYING COMPUTER SCIENCE
- INTERNSHIP EXPERIENCE:
 - INCOMING LAUNCH NAT'L TECHNOLOGY INTERN @ EY (SUMMER 2024)
- INTERESTS
 - PROGRAMMING (PYTHON, JAVA, HTML, CSS, BASIC JS)
 - APPLICATION PROGRAMMING INTERFACES (API'S)
 - DISCORD BOTS
- FUN FACTS
 - ALSO A METS FAN (UNFORTUNATELY)
 - MENTOR FOR TWO DIFFERENT PROGRAMS @ ST. JOHN'S (RISE NETWORK AND EPIC PROGRAM)
 - I DIDN'T KNOW WHAT JAVA WAS UNTIL FIRST DAY OF FRESHMAN YEAR
 - FAVORITE COURSE @ ST. JOHN'S: INTRO TO DATA STRUCTURES WITH NIKHIL YADAV (CUS 1126)



BEN | COMMITTEE CHAIR

- SENIOR MAJORING IN COMPUTER SCIENCE
- SECOND SEMESTER OF DATA SCIENCE MASTERS DEGREE 4+1 PROGRAM
- I ENJOY PLAYING BASKETBALL, PING-PONG, AND SWIMMING
- I LIKE TO TRAVEL
- SOME THINGS I LEARNED THIS PAST YEAR:
 - TECHNICAL INTERVIEW PREP (PYTHON)
 - REST APIs
 - REACT/JAVASCRIPT/CSS TAILWIND
 - DATA ANALYSIS IN PYTHON (DATA MINING WITH PROFESSOR SCHWEIKERT)
- GOALS FOR THIS SEMESTER/UPCOMING SUMMER:
 - FINISH A TENSORFLOW (MACHINE LEARNING) COURSE ON UDEMY
 - GET A CERTIFICATE IN AWS (DISTRIBUTED BIG DATA ANALYTICS PROFESSOR CROCETTI)
 - START WORKING ON AN APP AND/OR FIND A DATA SCIENCE INTERNSHIP
- FAVORITE COURSE AT ST JOHN'S: SOFTWARE DESIGN METHODS WITH NIKHIL YADAV





FAIROOZ | EVENTS COORDINATOR

- SENIOR MAJORING IN COMPUTER SCIENCE
- PROFESSIONAL EXPERIENCE:
 - DATA SCIENCE INTERN AT CANDOGRAM INC. (A STARTUP COMPANY)
 - MACHINE LEARNING AND AI FELLOWSHIP @ CORNELL TECH
- INTERESTED IN DATA SCIENCE, AI, AND WEB DEVELOPMENT
- FUN FACTS:
 - I STARTED CODING IN COLLEGE WITH NO PRIOR EXPERIENCE
 - I LOVE WATCHING ANIME (FINISHED NARUTO SHIPPUDEN IN 3 WEEKS)
 - I AM A BIG FOODIE, SO I ENJOY EXPLORING NEW FOOD SPOTS IN THE CITY WITH MY FRIENDS
- FAVORITE COURSE AT ST JOHN'S : DATA MINING WITH NIKHIL YADAV



Me when
I'm hungry

Me after
I eat food



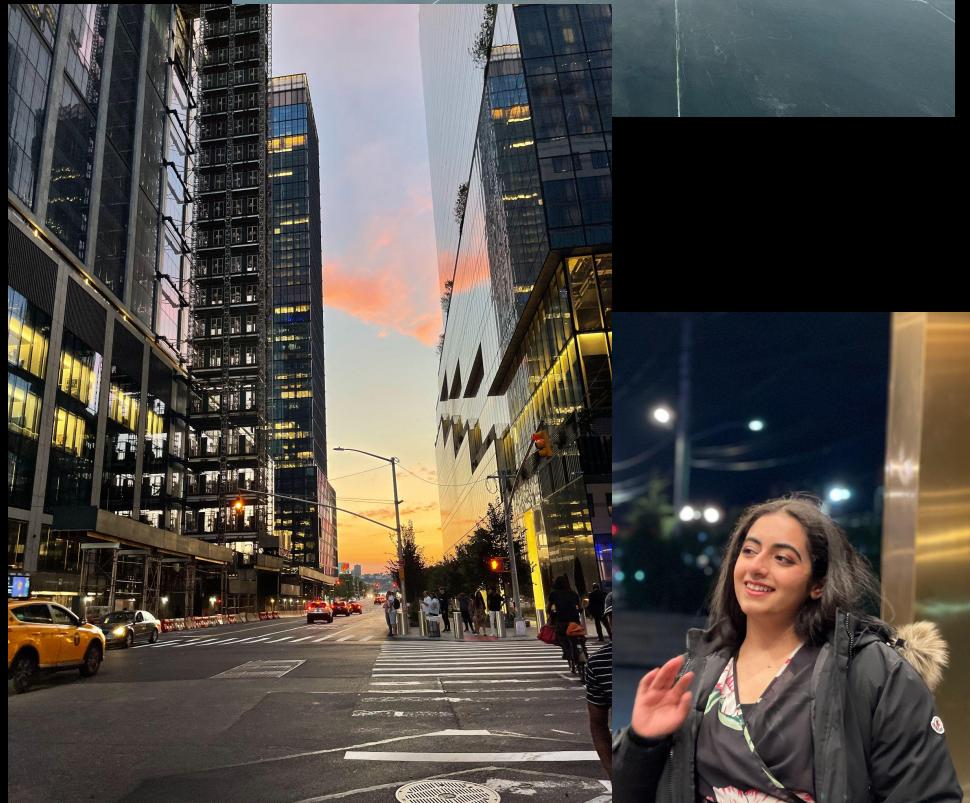
AQUEENA | SOCIAL MEDIA COORDINATOR

- SENIOR MAJORING IN CYBER SECURITY SYSTEMS
- PREVIOUS INTERNSHIP EXPERIENCE
 - INFORMATION SECURITY ANALYST INTERN- SERVICENOW
 - INFORMATION SECURITY INTERN- NJ COURTS
- EXTERNAL EXPERIENCE- CODEPATH'S INTRODUCTION TO CYBERSECURITY COURSE
- INTERESTED IN DIGITAL FORENSICS AND INCIDENT RESPONSE
- FUN FACTS
 - I HAVE TRAVELED TO 10 COUNTRIES SO FAR: USA, ARGENTINA, ECUADOR, FRANCE, ITALY, SWEDEN, IRELAND, GERMANY, SPAIN, SWITZERLAND
 - I LIKE WATCHING ANIME AND I HAVE A WEIRD FEAR OF EATING STRAWBERRIES (NOT TRYPOPHOBIA)
- FAVORITE COURSE @SJU DATA SECURITY AND CRYPTOGRAPHY (CUS 1185) WITH DR. TROJA



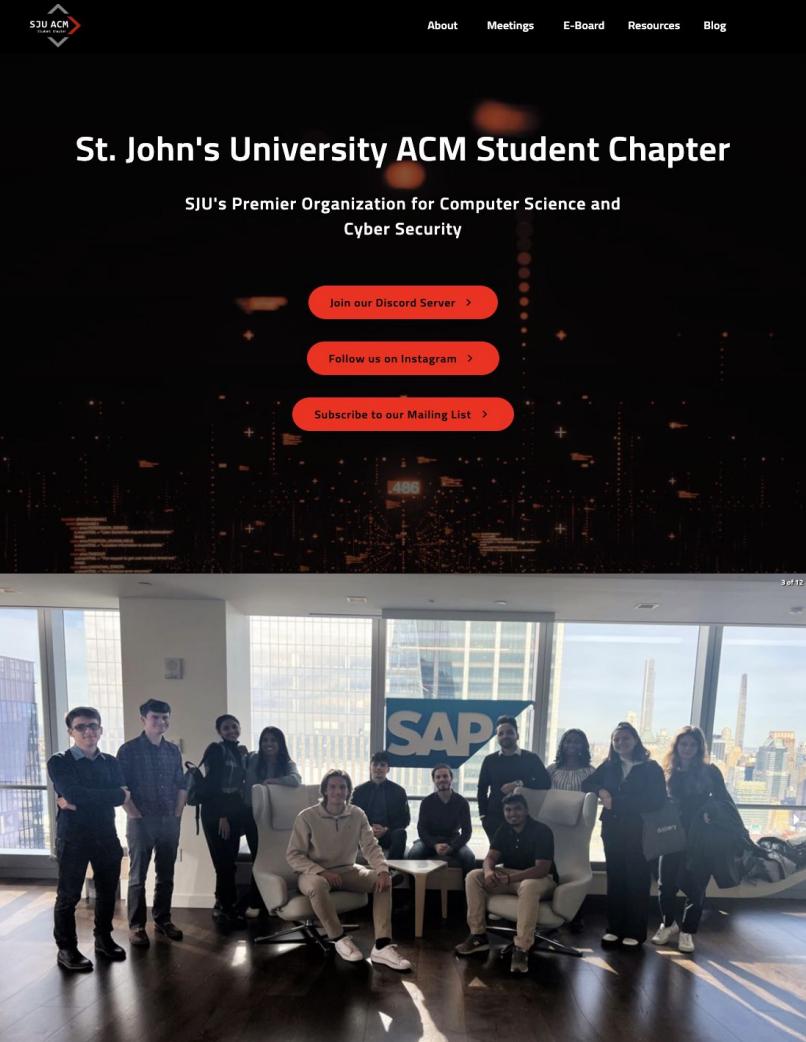
AMRITA | FRESHMAN REPRESENTATIVE

- FRESHMAN MAJORING IN CYBERSECURITY SYSTEMS
- EXPERIENCE
 - NOTHING RELATED TO MY MAJOR YET :')
- INTERESTS
 - DIGITAL FORENSICS 🕵️
 - PROGRAMMING 💻
- FUN FACTS:
 - I'VE BEEN TO 14 STATES (NY, NJ, AZ, CT, DE, FL, LA, MD, MS, NC, PA, TX, WA, VA)
 - I LIKE PHOTOGRAPHY, ESPECIALLY CITYSCAPES 🏙️
 - I LOVE TO COOK ALL TYPES OF CUISINES
- FAVORITE COURSE @ ST. JOHN'S: CUS 1116 WITH PROF. GHAZIZADEH (SUBJECT TO CHANGE)

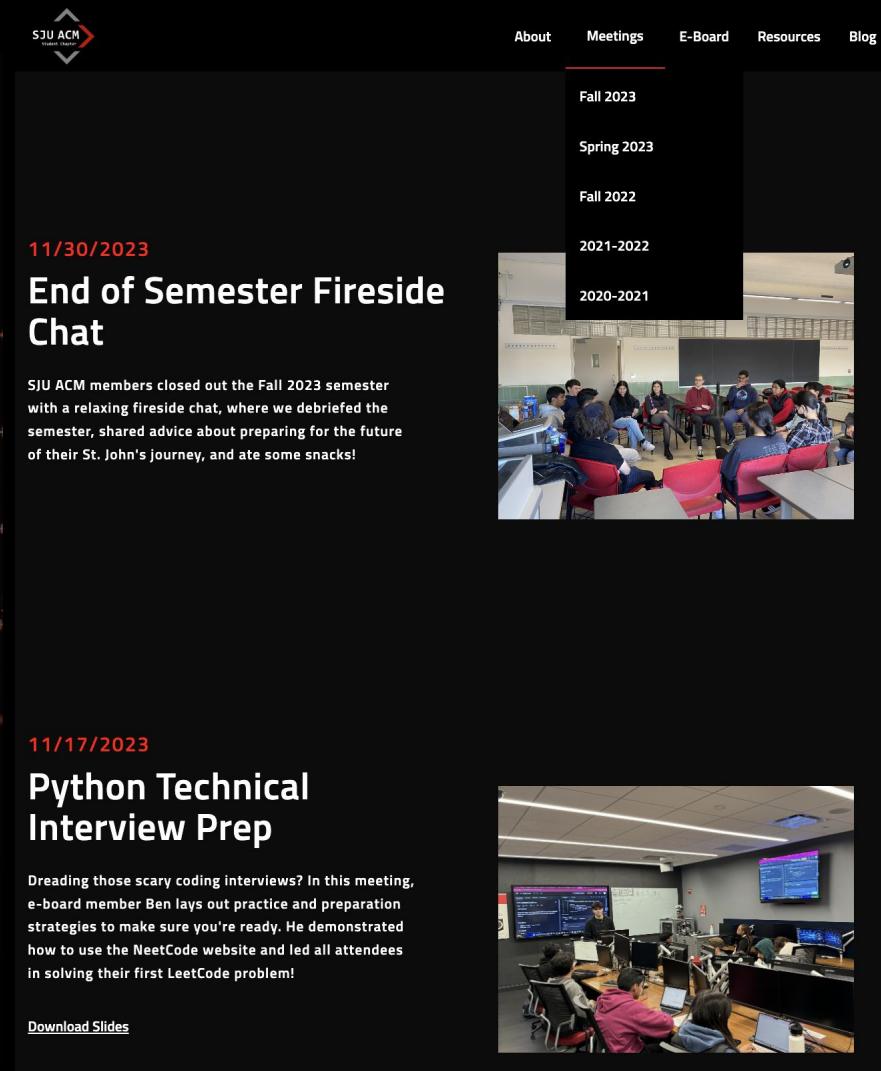


SJU ACM RESOURCES

SJU ACM WEBSITE - [SJUACM.COM](https://sjuacm.com)



The homepage features a dark background with a digital grid pattern. At the top, the SJU ACM logo is displayed. Below it, the title "St. John's University ACM Student Chapter" is prominently shown. A subtitle reads "SJU's Premier Organization for Computer Science and Cyber Security". Three call-to-action buttons are visible: "Join our Discord Server >", "Follow us on Instagram >", and "Subscribe to our Mailing List >". A large photograph at the bottom shows a group of approximately 15 ACM members posing for a group photo in a modern office setting with large windows overlooking a city skyline.



11/30/2023
End of Semester Fireside Chat
SJU ACM members closed out the Fall 2023 semester with a relaxing fireside chat, where we debriefed the semester, shared advice about preparing for the future of their St. John's journey, and ate some snacks!

11/17/2023
Python Technical Interview Prep
Dreading those scary coding interviews? In this meeting, e-board member Ben lays out practice and preparation strategies to make sure you're ready. He demonstrated how to use the NeetCode website and led all attendees in solving their first LeetCode problem!

[Download Slides](#)

A sidebar on the right lists past meetings: Fall 2023, Spring 2023, Fall 2022, 2021-2022, and 2020-2021. Below the sidebar are two photographs: one showing a group of people in a classroom setting during a fireside chat, and another showing several people working on laptops in a room with multiple monitors and a whiteboard.

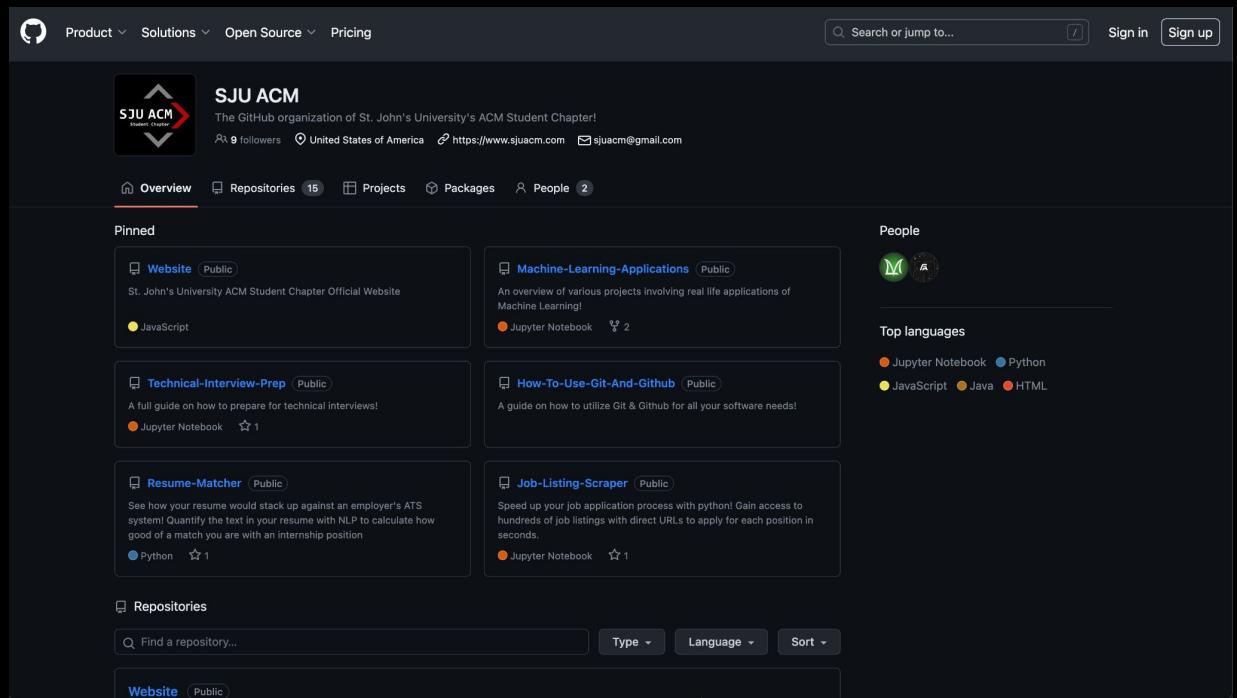
SJU ACM YOUTUBE - @SJUACM

The screenshot shows the YouTube channel page for SJU ACM. The channel has 112 subscribers and 17 videos. The channel art features the SJU ACM logo (a stylized 'A' with arrows) inside a circle. The navigation bar includes Home, Videos (selected), Playlists, Community, and a search icon. Below the navigation, there are three filter buttons: Latest (selected), Popular, and Oldest. Four video thumbnails are displayed:

- SJU ACM Clue - A Hack at St. John's Walkthrough** (15:54) - 24 views • 3 months ago
- Introduction to Active Directory** (50:48) - 68 views • 3 months ago
- SJU ACM Alumni Panel (Fall 2022)** (1:20:18) - 54 views • 1 year ago
- SJU ACM Alumni in Tech** (56:40) - 277 views • 1 year ago

SJU ACM GITHUB

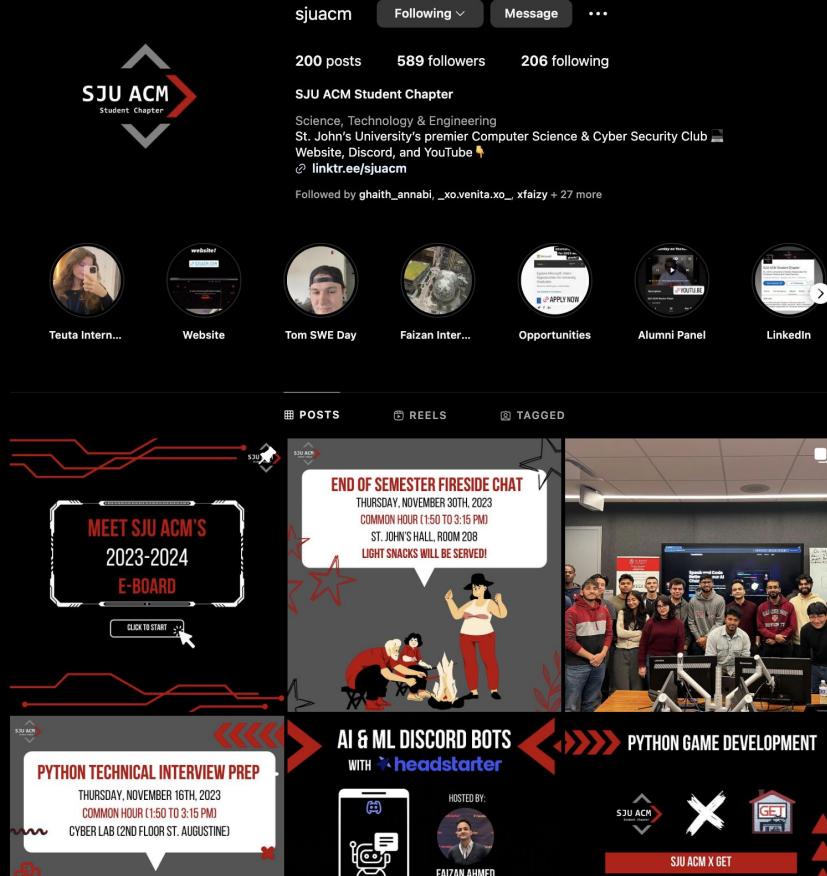
- **VIEW ALL THE SOURCE CODE FOR DOZENS OF PROJECTS RANGING FROM TOPICS IN COMPUTER VISION, MACHINE LEARNING, WEB SCRAPING, NLP, WEB DEVELOPMENT, AND MORE!**
- **THE SJU ACM WEBSITE AND ITS SOURCE CODE IS FEATURED ON OUR GITHUB**
- **HEADSTARTER HACKATHON - VIEW THE PROJECTS THAT GOT 1ST AND 2ND PLACE!**



[HTTPS://GITHUB.COM/SJUACM](https://github.com/sjuacm)



SJU ACM INSTAGRAM AND DISCORD



@SJUACM

The screenshot shows the SJU ACM Student Chapter Discord server. The user is in the #role-assignment channel. The channel description says: "Choose the roles the describe you best!". The sidebar lists various roles under categories like ADMIN, INFORMATION, GENERAL, STUDENTS, and VOICE CHANNELS. A message from the bot "ACM Turtle" is visible, prompting users to select their member roles. The message says: "please select the roles that describe you best!" and lists options for Year (Freshman, Sophomore, Junior, Senior, Graduate, Alumni) and Major/Minor (Computer Science, Cyber Security, Data Science).

JOIN THROUGH THE LINK ON OUR WEBSITE!





UPCOMING SJU ACM EVENTS

EY COFFEE BREAK & CASE STUDY INTERVIEWS W/ PROTIVITI

INTRO TO PYTHON LIBRARIES/MODULES

OPEN SOURCE INTELLIGENCE LAB

PYTHON MALWARE DEVELOPMENT

PYTHON TECHNICAL INTERVIEW PREP PART 2



OTHER UPCOMING MEETINGS

MEET THE FIRMS NETWORKING EVENT SPRING 2024

SJU CYBER NECCDC QUALIFIERS

SOPHOMORE PROTIVITI CAREER TREK

HEADSTARTER HACKATHON

SPRING CAREER & INTERNSHIP EXPO 2024

EY COFFEE BREAK - THIS MONDAY DURING COMMON HOUR



The poster features a dark gray background with white text and illustrations. At the top left is the SJU ACM logo (a red triangle with 'SJU ACM' and 'Student Chapter'). In the center is the large text 'EY COFFEE BREAK' with the EY logo to its right. Below this, the text reads 'NETWORK WITH PROFESSIONALS WHILE ENJOYING SOME COFFEE, HOT CHOCOLATE, AND MUNCHKINS'. The central illustration shows three women sitting around a table, engaged in conversation over coffee. A large wavy line graphic on the left side of the poster represents steam or coffee. At the bottom, the event details are listed: 'MONDAY, FEBRUARY 5TH, 2024', 'COMMON HOUR (1:50 TO 3:15 PM)', and 'DAC 308'. A stylized coffee cup with steam is at the bottom right.

SJU ACM
Student Chapter

EY COFFEE BREAK

EY

NETWORK WITH PROFESSIONALS WHILE ENJOYING SOME COFFEE,
HOT CHOCOLATE, AND MUNCHKINS

MONDAY, FEBRUARY 5TH, 2024

COMMON HOUR (1:50 TO 3:15 PM)

DAC 308



SPRING CAREER & INTERNSHIP EXPO 2024

 **Spring Career & Internship Expo 2024**

Thursday, April 4th 2024, 12:00 pm - 4:00 pm EDT
University Career Services (Queens Campus)
80-00 Utopia Pkwy, Queens, New York 11439, United States [View on map](#)

[★ Favorite](#) [+ Join Event](#)

[Details](#) [Map](#) [All Employers](#) [Employers I'm Following](#)

 **2 months away**

Employer attendees

Jetro Restaurant Depot, Techtronic Industries, NA (TTI), New York City Department Of Correction, Marine Officer Programs and 22 other employers are going.

[See more employers](#)

Contact

Julia Tramonti
Coordinator Employer Development
tramontj@stjohns.edu

Career fair description

Are you looking for a job or internship?

Mark your calendar for Thursday, April 4, 2024 from 12:00 to 4:00 p.m., for the Spring Career & Internship Expo 2024. Employers from a variety of industries will be on hand to meet you. This event is open to all St. John's students and alumni! Please bring multiple copies of your resume and your St. John's student ID, and *remember that business attire is strongly recommended.*

Event Details:

Spring Career & Internship Expo 2024 (In-Person)

Date: Thursday, April 4, 2024

Time: 12:00- 4:00 pm

Location: Taffner Field House, Queens campus

Prepare for the Fair:

Schedule an appointment to meet with your career advisor and have your resume reviewed
Research the companies attending
Register for the fair in Handshake

We hope you will be able to join us at this event! Please contact your Career Advisor or careers@stjohns.edu if you have any questions.

WAYS TO PREPARE FOR CAREERS FAIRS

- SCHEDULE AN APPOINTMENT TO MEET WITH YOUR CAREER ADVISOR

AND HAVE YOUR RESUME REVIEWED!

- ELISA ZERVOS FOR CCPS

- RESEARCHING THE COMPANIES ATTENDING

- REGISTERING FOR THE FAIR ON HANDSHAKE

The screenshot shows a career fair expo page with a sidebar for filtering companies. The main area displays three company profiles:

- BDO USA, P.C.**: Located at 330 North Wabash Avenue, Chicago, IL 60611. Industry: Accounting. Description: There are many world-class accounting firms. Far fewer that offer a culture so rich in professional opportunity, personal fulfillment, and long-term growth. At BDO, we understand that exceptional service to our clients begins – and ends – with exceptional regard for our people. Because at its core, our business is not about numbers or spreadsheets, dollars or cents, but about people...
View Details | Follow
- CBP - Office of Professional Responsibility**: Located at 1300 Pennsylvania Avenue Northwest, Washington, DC 20530. Industry: Legal & Law Enforcement. Description: The Office of Professional Responsibility (OPR) investigates allegations of employee misconduct and criminal activity to maintain public trust and accountability of the CBP workforce.
View Details | Follow
- Federal Bureau of Investigation - New York Division**: Located at 935 Pennsylvania Ave NW, Washington, DC 20530. Industry: Legal & Law Enforcement. Description: Today's FBI is an intelligence-driven and threat-focused national security organization with both intelligence and law enforcement responsibilities that is staffed by a dedicated cadre of more than 30,000 agents, analysts, and other professionals who work around the clock and across the globe to protect the U.S. from terrorism, espionage, cyber attacks, and major criminal threats, and to...
View Details | Follow

At the bottom, there is a section for **Jetro Restaurant Depot** with location information and industry details.



OFFICE TOUR TO PROTIVITI (SOPHOMORES ONLY)

←

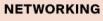
 St. John's University-New York

Sophomore Protiviti Career Trek

protiviti®
Global Business Consulting

 In-person  Wed, Feb 21 · 11 AM-1 PM EST

 888 7th Avenue, New York City, New York 10106, United States

 NETWORKING

What you'll get out of it

Calling all Sophomore! Interested in learning more about a career in Consulting? On Feb 21, join Protiviti in our New York City office to learn more about potential future opportunities in Consulting and meet with St. John's alums! This is a great way to see our office, and network with those in the Consulting industry. Due to the registration limits, the RSVP will be for sophomores to sign up.



 Register

Have a question?
Ask questions you have about the event or open roles.

 **Robert Beaudet**
beaudetr@stjohns.edu

 **Joseph Oleary**
Graduate Assistant - Employer Relations
joseph.oleary19@stjoh...



• MAJOR LEAGUE HACKING'S 2024 HACKCON



- TAKES PLACE AUGUST 23RD TO 25TH IN COPAKE, NEW YORK (CAMP PONTIAC)
- TICKETS ARE \$275 UNTIL MARCH 15TH
- TICKETS INCLUDE CONFERENCE ACCESS, BUNK ROOM HOUSING, FOOD, AND A SHUTTLE TO/FROM NYC.
- SCHOLARSHIPS ARE AVAILABLE FOR A LIMITED TIME
- REGISTER AT [HTTPS://HACKCON.MLH.IO/](https://hackcon.mlh.io/)



WEB3 HACKATHON @ SJU - MANHATTAN CAMPUS

INFO

Practical info

- The competition is open to **all students and recent graduates of less than 2 years.**
- Each team must consist of at least **3 members** and no more than **7 members.**
- Registration will open **January 8th, 2024.**
- The hackathon will take place at the premises of St. John's University Manhattan Campus at **101 Astor Place, New York, NY 10003.**

- **FIND OUT MORE HERE:**

[HTTPS://WWW.HACKATHON-W3B.COM/EN/
NEWYORK](https://www.hackathon-w3b.com/en/newyork)

- **REGISTRATION:**

[HTTPS://SIA-PARTNERS.TYPEFORM.COM/
H
W3B-NYC2024](https://sia-partners.typeform.com/HW3B-NYC2024)

Key dates

MONDAY, JANUARY 8th,
2024
**Online registration
opens**

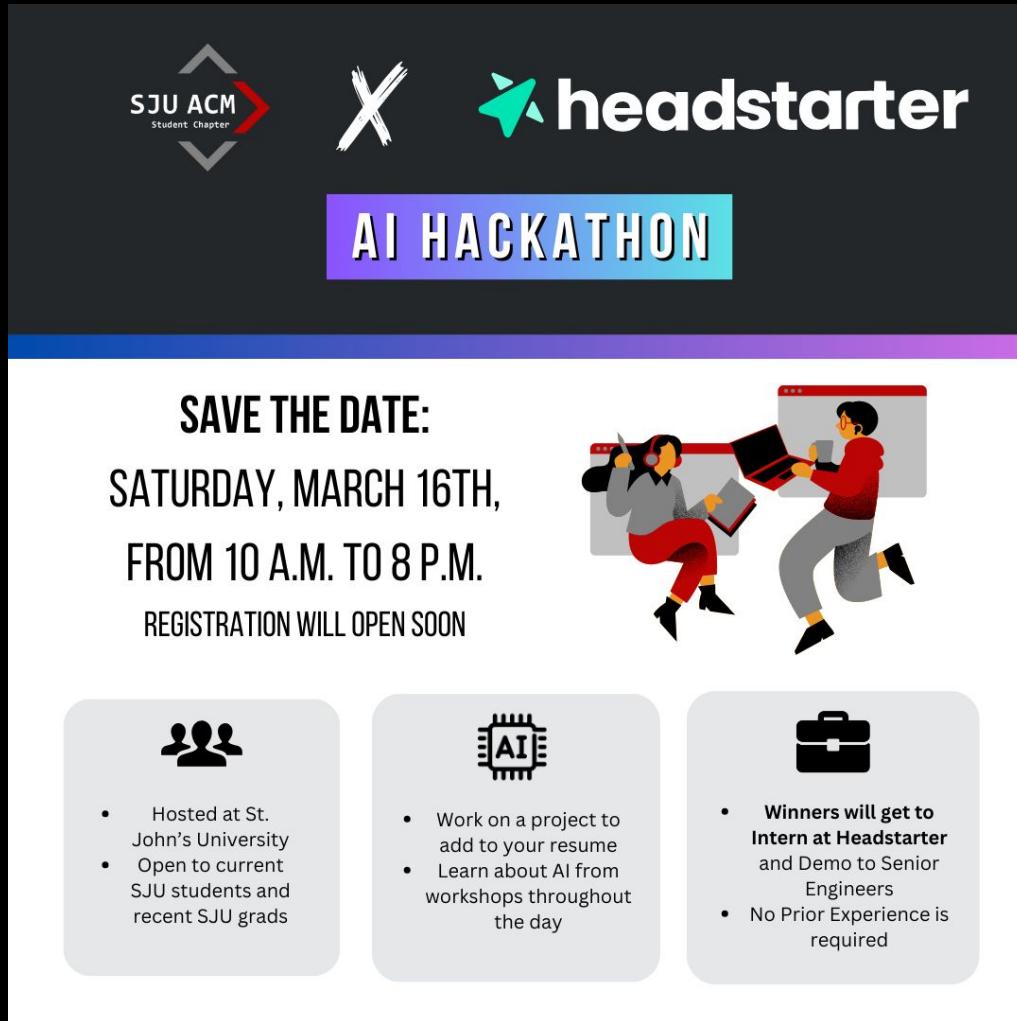
SUNDAY, FEBRUARY
4th, 2024
Closing of registration

SUNDAY, FEBRUARY 18th,
2024
**Deadline for submitting
business cases**

FRIDAY, MARCH 1st,
2024
Hackathon Kick-Off

SUNDAY, MARCH 3rd,
2024
**End of Hackathon,
Judge Presentations
and Prize Ceremony**

SJU ACM X HEADSTARTER AI HACKATHON



The banner features the SJU ACM logo (a red and grey triangle icon with the text "SJU ACM Student Chapter") next to a white "X" icon followed by the "headstarter" logo (a green star-like icon with the word "headstarter"). Below this, a purple button contains the text "AI HACKATHON". Underneath, a blue bar displays the text "SAVE THE DATE: SATURDAY, MARCH 16TH, FROM 10 A.M. TO 8 P.M." and "REGISTRATION WILL OPEN SOON". To the right, there's a small illustration of two people working on laptops. Below the main text are three callout boxes: one with two people icons, one with an AI chip icon, and one with a briefcase icon.

- Hosted at St. John's University
- Open to current SJU students and recent SJU grads

- Work on a project to add to your resume
- Learn about AI from workshops throughout the day

- Winners will get to Intern at Headstarter and Demo to Senior Engineers
- No Prior Experience is required

- TEAMING UP WITH HEADSTARTER FOR AN ON-CAMPUS HACKATHON BASED ON AI
- WE STRONGLY ENCOURAGE CURRENT SJU STUDENTS AND RECENT SJU GRADS TO THINK ABOUT FORMING TEAMS TO BUILD OUT AN AI PROJECT YOU CAN ADD TO YOUR RESUME
- WORKSHOPS WILL TAKE PLACE THROUGHOUT THE DAY
- WINNERS WILL GET THE CHANCE TO INTERN WITH HEADSTARTER AND DEMO TO SENIOR ENGINEERS
- NO PRIOR EXPERIENCE IS REQUIRED!

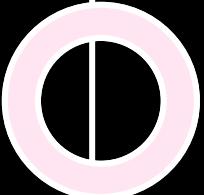


SJU CYBER



- SUBMIT AN INTEREST FORM FOR THE SJU CYBER TEAM TO PARTICIPATE IN CYBER COMPETITIONS
- PERFECT OPPORTUNITY TO PARTICIPATE AND REPRESENT THE SCHOOL
- THE TEAM IS OPEN TO ANYBODY, REGARDLESS OF MAJOR OR YEAR
- YOU WILL BUILD TECHNICAL AND COLLABORATION SKILLS THROUGH VARIOUS MEETINGS AND COMPETITIONS
- INTEREST FORM:
[HTTPS://FORMS.GLE/DCCUUECFUDUWQ8QM9](https://forms.gle/DCCUUECFUDUWQ8QM9)





GENERAL TIPS

ASK

ASK QUESTIONS!

- TO CLASSMATES, TO THE E-BOARD, TO YOUR PROFESSORS
- BE A FAMILIAR FACE!

MEET

MEET WITH YOUR PROFESSORS!

- SHOW YOUR WILLINGNESS TO LEARN AND UNDERSTAND CONCEPTS TAUGHT IN THE CLASS

ENGAGE

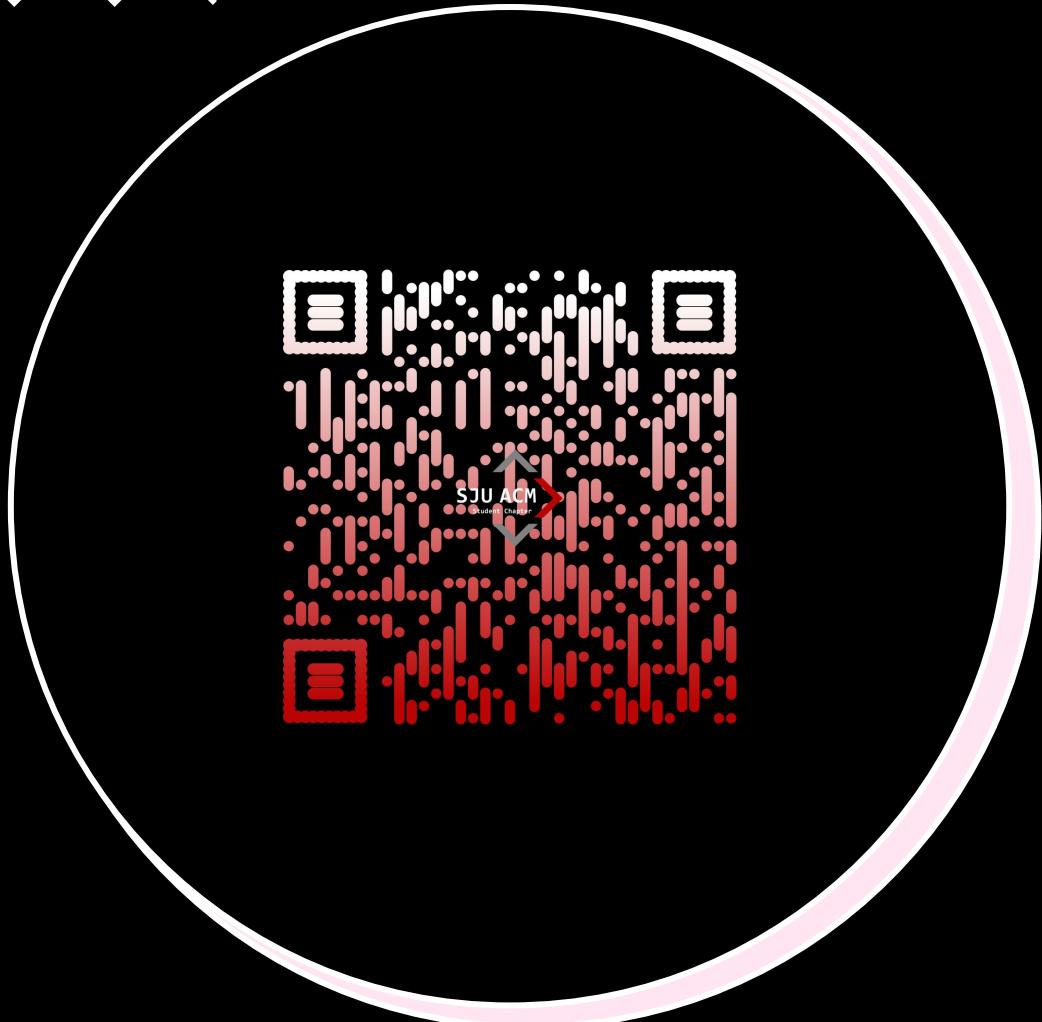
ENGAGE OUTSIDE OF THE CLASSROOM!

- ATTENDING CLUB MEETINGS AND EVENTS, JOINING COMPETITION TEAMS, CREATING PERSONAL PROJECTS, LEARNING SOMETHING NEW EVERY DAY

APPLY

APPLY TO INTERNSHIPS EARLY!

- EARLY INCLUDES AT THE BEGINNING OF THE SEMESTER, BUT ALSO AS A FRESHMAN/SOPHOMORE



ONTO THE LAB!

FILL OUT THE SIGN IN FORM IF YOU HAVE NOT ALREADY!

**He was forced to use
Java**

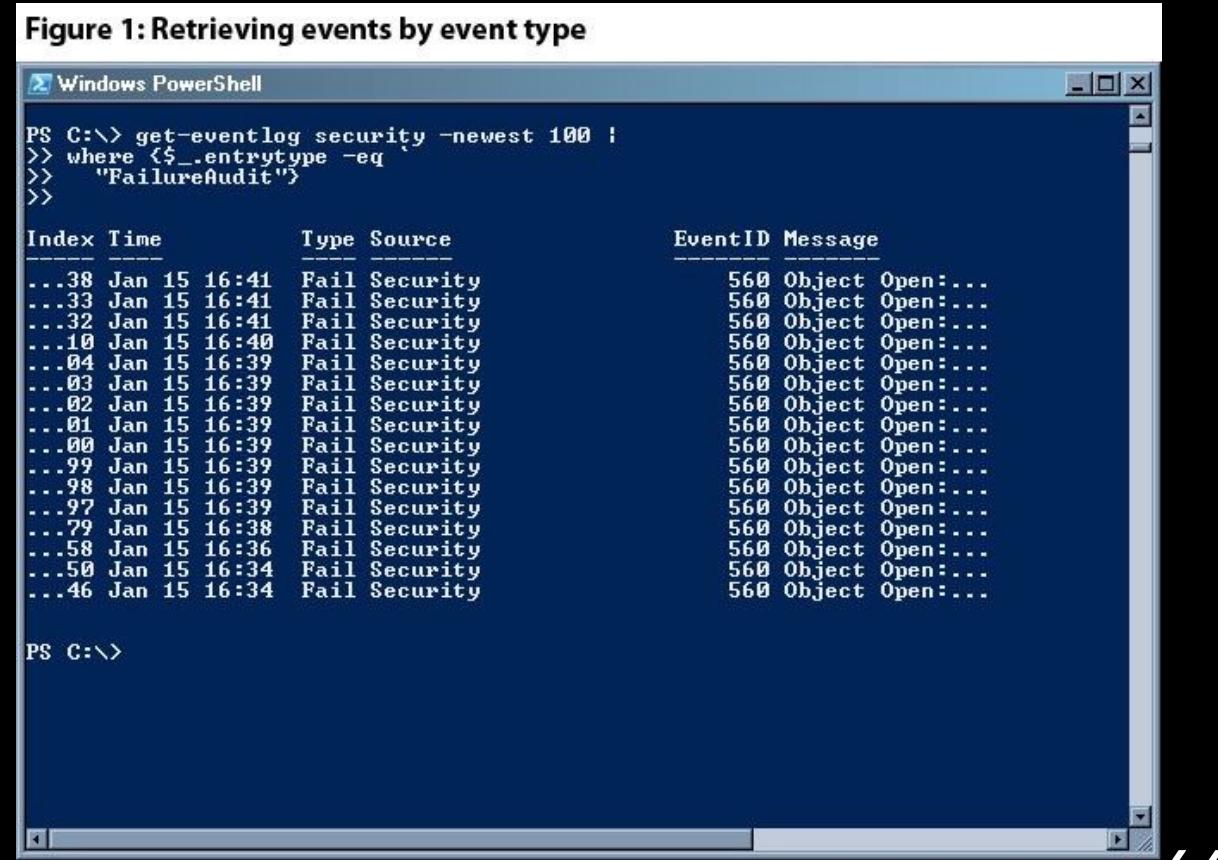


SCRIPTING IN CYBERSECURITY

SCRIPTING FOR CYBERSECURITY

- A PIECE OF AUTOMATION FOR CYBERSECURITY IS SCRIPTING, TYPICALLY ACCOMPLISHED THROUGH THESE LANGUAGES:
 - BASH
 - POWERSHELL
 - PYTHON
- THESE LANGUAGES CAN BE USED FOR NETWORK AND PORT SCANNING, MAKING PAYLOADS FOR MALWARE ANALYSIS, ACCESSING SERVERS, INCIDENT RESPONSE, AND MORE
- SCRIPTING ALLOWS YOU TO GET SOME HANDS-ON EXPERIENCE WITH SECURITY AUTOMATION EASILY

Figure 1: Retrieving events by event type



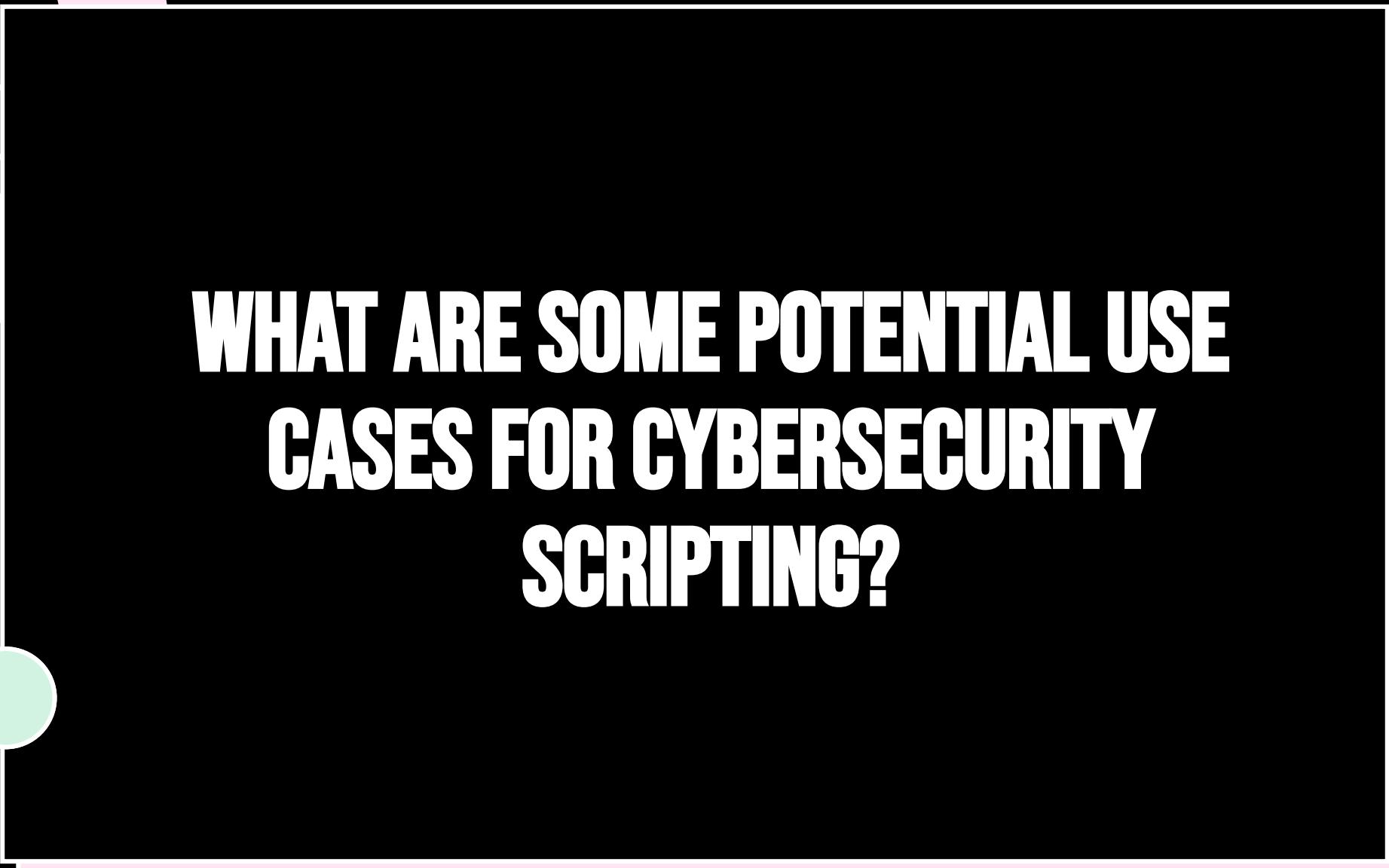
The screenshot shows a Windows PowerShell window titled "Windows PowerShell". The command entered is:

```
PS C:\> get-eventlog security -newest 100 |>> where {$_.entrytype -eq >> "FailureAudit"}>>
```

The output displays a table of events:

Index	Time	Type	Source	EventID	Message
..38	Jan 15 16:41	Fail	Security	560	Object Open::
..33	Jan 15 16:41	Fail	Security	560	Object Open::
..32	Jan 15 16:41	Fail	Security	560	Object Open::
..10	Jan 15 16:40	Fail	Security	560	Object Open::
..04	Jan 15 16:39	Fail	Security	560	Object Open::
..03	Jan 15 16:39	Fail	Security	560	Object Open::
..02	Jan 15 16:39	Fail	Security	560	Object Open::
..01	Jan 15 16:39	Fail	Security	560	Object Open::
..00	Jan 15 16:39	Fail	Security	560	Object Open::
..99	Jan 15 16:39	Fail	Security	560	Object Open::
..98	Jan 15 16:39	Fail	Security	560	Object Open::
..97	Jan 15 16:39	Fail	Security	560	Object Open::
..79	Jan 15 16:38	Fail	Security	560	Object Open::
..58	Jan 15 16:36	Fail	Security	560	Object Open::
..50	Jan 15 16:34	Fail	Security	560	Object Open::
..46	Jan 15 16:34	Fail	Security	560	Object Open::

PS C:\>



**WHAT ARE SOME POTENTIAL USE
CASES FOR CYBERSECURITY
SCRIPTING?**



EXAMPLE USE CASES

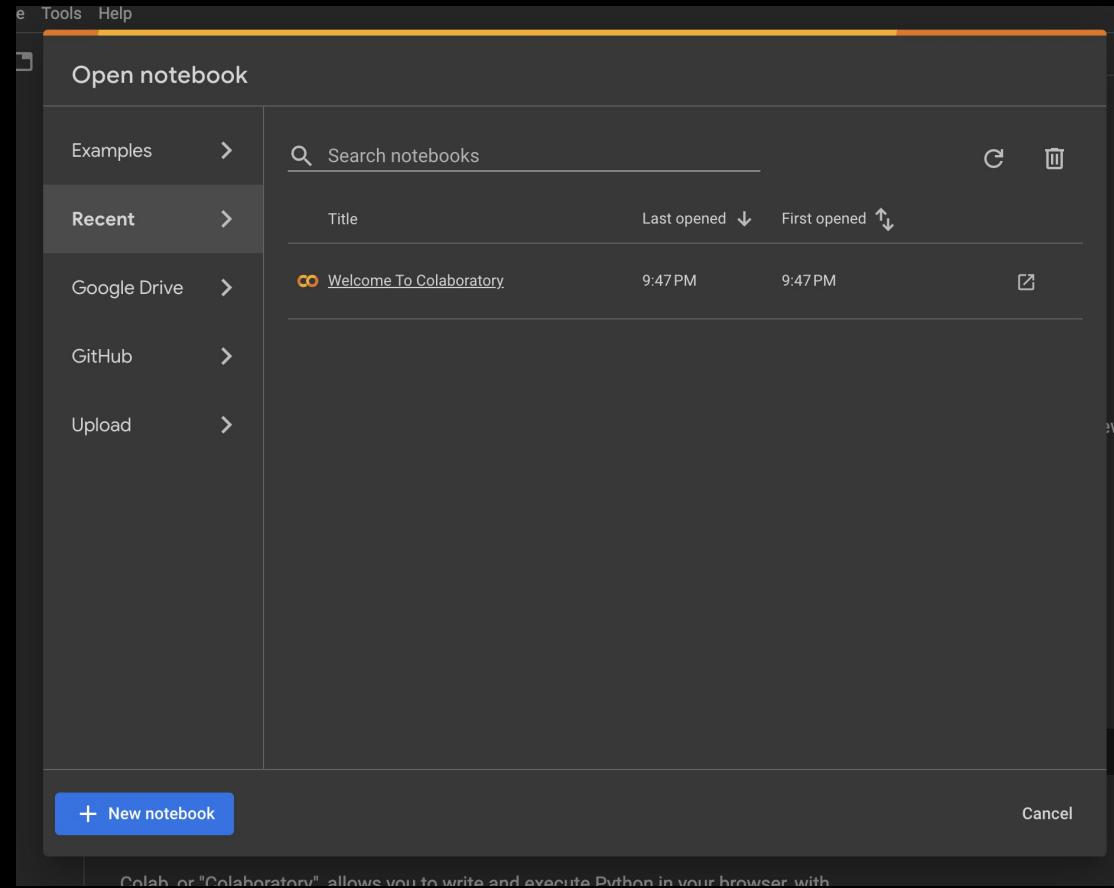
- 1) TIMEOUT POLICY FOR WHEN A USER SPENDS MORE THAN THREE MINUTES TRYING TO LOG INTO A DATABASE
- 2) DETECTING IF A USER LOGS IN OUTSIDE OF ESTABLISHED WORK HOURS, LOGINS COME FROM TWO DIFFERENT IP ADDRESSES, AND IF THE LOCATION OF LOGIN IS FROM AREAS THAT DO NOT ALIGN WITH USER TENDENCIES
- 3) FLAGGING USERS WHEN THEY HAVE HAD MORE THAN THREE LOGIN FAILURES IN THE LAST THIRTY MINUTES
- 4) REMOVING BLOCKED IP ADDRESSES FROM A LIST OF ALLOWED IP ADDRESSES



REMOVING BLOCKED IP ADDRESSES FROM ALLOW LIST

• GETTING SET UP WITH GOOGLE COLAB

- VISIT [HTTPS://COLAB.GOOGLE/](https://colab.google/)
- SELECT OPEN COLAB
- PRESS SIGN IN IN THE TOP
RIGHT CORNER
- SIGN IN USING YOUR GOOGLE
ACCOUNT
- CLICK NEW NOTEBOOK
- CODE ALONG TO DEVELOP YOUR
FIRST SCRIPT





THANK YOU!

