Aniket Mukherjee

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EDUCATION

Queen's University — September 2020 — April 2024
Bachelors of Computing (Honours) in Cybersecurity — *Kingston, ON*

- **Relevant Coursework:** Data Structures, Algorithms, OOP, Operating Systems, System Level Programming, Software Quality Assurance
- **Awards and Certificates:** Certificate of Completion(Introduction to Cybersecurity and Pre-Security Learning path), Dean's Honour List

EXPERIENCE

QCTF(Queen's Capture The Flag) — August 2022 - Present
Co-Chair — *Kingston, ON*

- Currently leading a team of executives to create a large scale, nationally recognized CTF event for people to learn more about cybersecurity techniques/concepts in a competitive environment
- Hired members of our team by conducting interviews in accordance with EngSoc rules and regulations
- Currently working on implementing ideas to make the experience better overall for both particpants of the event and the exec team responsible for creating it

QCTF(Queen's Capture The Flag) — September 2021 - December 2021
Challenge Coordinator — *Kingston, ON*

- Learned about specific cybersecurity concepts in order to construct challenges for the CTF event QCTF hosted that year
- Created a difficult cryptography challenge
- Worked with other Challenge Coordinators to brainstorm ideas for additional challenges in other categories such as steganography, information hiding, and web exploitation
- Helped people during the event that were having technical problems with challenges, without giving the flags to those challenges away

COMPSA(Computing Students Association) — April 2021 - Present
Club Outreach/Volunteer Coordinator — *Kingston, ON*

- Secured partnerships with other computing related clubs on campus for COMPSA
- Hosted multiple events and initiatives with partnered clubs to help advertise those clubs to the computing student body
- Briefly took on the duties of IA director for about a month to help keep Internal Affairs operations running smoothly
- Brainstormed ideas for events and things COMPSA could do to show appreciation for their volunteers, and turned those ideas into reality

PROJECTS

CompactCTF | *Python, Discord bot library*

- Created a rudimentary prototype of a discord bot that can host a server wide CTF competition, centered around cybersecurity concepts like cryptography, but with room for further expansion
- Made a couple of challenges to check that the bot would be able to distinguish correct flags from other text

Mastermind modelling project | *Python, Jape*

- Worked with a team to model a children's game and focus in on the logical aspects of the question: Can the codebreaker logically determine the code in the next guess?
- Handled all the proof and deduction parts of the model and project as a whole, while fully demonstrating my knowledge of the logical concepts taught in class

QBnB | *Python, SQLalchemy, Flask, HTML*

- Worked with a team to construct an app that simulates the functionality of airbnb, in accordance to customer requirements
- Learned how to operate within a Scrum development cycle alongside my team members

Technical Skills

Languages: Python, Java, Bash, SQL
Frameworks: Flask
Technologies: MySQL, Selenium, Git, SQLAlchemy
DevOps: Docker, GitHub Actions, CI/CD