

Michael Hanif Khan

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Education

University of Chicago at Illinois (UIC)
Bachelor of Science (B.S.), Computer Science

August 2023 – Current

GPA: 3.5/4.0

Coursework: Data Structures, Machine Organization, Computational Theory, Software Design

Research

MSCS Undergraduate Research Laboratory - MURL

Rational Points on Elliptic Curves

Spring 2025

- Implemented addition upon Elliptic Curves in Python.
- Algorithmically identified points of Torsion and Infinite Order on an Elliptic Curve.
- Modeled the relationship between the complexity of Elliptic Curves and computation time with Matplotlib.

Professional Association

Linux Users' Group

August 2023 - Current

President

Department of Energy's CyberForce

- Managed Administrator privileges, securing 3 Windows VMs vital to plant infrastructure with PowerShell in the Windows Command Line.
- Utilized and modified an OpenCV Python script to detect and map shorthand glyphs into human-readable English.
- Established and maintained a connection between wind turbine hardware and the plant's control systems under an active attack.

Association for Computing Machinery (ACM)

August 2023 - Current

Member

Technical Skills

Languages: C, C++, Java, Python, F#, Rust, Go, SQL

Technologies: Linux, GitHub, Git, GDB, Valgrind, Makefile, AWS EC2