

# ABDUL JALEEL KHAN

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## EDUCATION

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- DePaul University**, Jarvis College of Computing and Digital Media Chicago, Illinois  
M.S in Computer Science 09/2023 – 06/2025  
Relevant Coursework: Principles of Database Management Systems, Programming Languages, Cryptology, Applied Algorithms and Structures, Fundamentals of Data Science
- Osmania University**, Department of Information Technology Hyderabad, India  
B.E in Information Technology 06/2018 – 06/2022  
Relevant Coursework: Data Structures, DBMS, Java Programming, Web Application Development, Software Engineering, Operating Systems, Computer Networks, Cloud Computing, Data Communication

## EXPERIENCE

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- DePaul University** 01/2024 – Present  
*Graduate Research Assistant*
- Worked on Professor David Ramsay's research project aiming to assess the impact of smartphones on well-being, focusing on Instagram's data usage patterns.
  - Captured Instagram data packets to analyze user interaction.
  - Deactivated certificate pinning on Instagram to enable data packet capture over a proxy network. Utilized mitmproxy to establish a proxy server, capturing all Instagram data served to users.
  - Wrote two scripts to modify Instagram's visual content in real-time: one to blur images to discourage long time usage, and another to apply watermarks, to watermark warnings on problematic content.
- Hewlett Packard Enterprise** 12/2022 – 07/2023  
*Technical Solutions Engineer*
- Contributed to the HPE Ezmeral Data Fabric team, enhancing the reliability and efficiency of a cutting-edge distributed file system.
  - Effectively diagnosed and resolved complex technical issues, ensuring minimal disruption to customer operations through effective troubleshooting and solution development.
  - Applied a comprehensive approach to problem-solving, involving issue replication in controlled environments, collaboration with cross-functional teams, and leveraging deep knowledge of the HPE Ezmeral Data Fabric system to uncover root causes and implement efficient solutions.
  - Designed and delivered comprehensive training sessions on Kubernetes and Pub/Sub message streaming for new hires and team members, enhancing team skills and operational efficiency.

## PROJECTS

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- Coordinate Geometry Calculator** 09/2022 – 11/2022
- Utilized Figma to design the front-end interface, focusing on usability and aesthetic appeal.
  - Developed the website using ReactJS, leveraging its component-based architecture to build a responsive user interface. Implemented state management techniques to handle user interactions smoothly.
  - Wrote custom code to implement the logic for performing geometric calculations. This involved deep mathematical problem-solving and coding algorithms capable of handling a variety of geometric computations accurately.
  - Successfully maintain an active monthly user base of approximately 1,000 through strategic use of Google Analytics and SEO optimization techniques to drive user engagement and growth.

<https://www.cgcalculator.com>

- Personal Site** 09/2020 – 09/2020
- Developed a simple portfolio website using HTML, CSS, and JavaScript
- <https://sufyankhan0.github.io/PS/Personal%20site?index.html>

## TECHNICAL SKILLS

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Languages: Python, Java, C, C++, SQL, HTML, CSS, JavaScript, React  
Machine Learning: Image Recognition, OpenCV, Scikit-Image, SciPy, Pillow/PIL  
Data Science: Data Preprocessing, Data Visualization and Data Analytics, Statistical Analysis, Tableau, Power BI  
Cybersecurity: MITMProxy, Packet Analysis, Proxy Technologies, Data Transfer Protocols