

ABDUL JALEEL KHAN

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EDUCATION

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

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

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

04/2024 – 04/2024

- Developed a Terminal themed Portfolio website that provides an engaging user experience

<https://ajk-portfolio.vercel.app>

TECHNICAL SKILLS

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