

HAJIRA SULTANA

• [Email](#) • [GitHub](#) • [LinkedIn](#) • [Portfolio](#) • 872.985.3310

SUMMARY OF QUALIFICATIONS:

- Known for creative problem-solving abilities, utilizing diverse knowledge in technology and management to address complex challenges and drive continuous improvement.
- Skilled in multiple programming languages and web development technologies, including JavaScript, Python, C/C++, HTML/CSS, and Java, alongside experience with various frameworks and developer tools.
- Demonstrated ability in driving marketing strategies and community engagement as a Community Manager and Marketing Intern, resulting in increased brand visibility, customer engagement, and partnership development.
- Excelled in guiding startups from ideation to market fit as part of the Executive Team at EdVenture Park Incubation Foundation, showcasing strong project management, strategic planning, and entrepreneurial mentoring skills.
- Proven track record as COO and Co-founder of AlphaEd, where I spearheaded operations, leading to significant business growth and operational efficiencies.
- Proficient in multiple languages for effective communication, both in technical environments and cross-functional team collaboration.
- Active participant in cybersecurity competitions such as National Cyber League (NCL), with hands-on experience in web exploration, penetration testing, network security, and vulnerability assessment. Skilled in applying security best practices to software development and system design.

TECHNICAL EXPERTISE / CERTIFICATIONS:

- **Certifications:** [RangeForce](#), [Postman API Fundamental student expert](#), MongoDB Certification, Google Ads ([Measurement Certificate](#), [Apps Certificate](#), [AI-Shopping Ads Certificate](#)), [NASA Open Science](#)
- **Programming Languages:** JavaScript, HTML/CSS, C++, Python, Java, C, Golang,.
- **Frameworks and Libraries:** React, Node.js, Express.js, D3.js, Flask, Bootstrap, Angular, Vue.js
- **Security Tools:** REST APIs, CI/CD, OOP, Snort, Wireshark, Burp Suite, Metasploit, Nmap, VMware, Nessus. , Agile, Test-Driven Development (TDD).
- **DevOps Tools:** Git, MySQL, MongoDB, PostgreSQL, AWS (basic), Postman, MQTT, Raspberry Pi , Docker, Azure.

EDUCATION:

Master of Science Lewis University, Romeoville, IL Concentration: Cybersecurity	Aug 2023 - May 2025
Bachelor of Science Jawaharlal Nehru Technological University, Hyd, India Majors: Electronics and Communication Engineering.	June 2018 - Aug 2022

PROFESSIONAL EXPERIENCE:

Lewis University, Romeoville, IL <i>Graduate Assistant (Web Developer) in University Alumni</i>	Sep 2024 - May 2025
<ul style="list-style-type: none">• Design and developed responsive web pages which allowed easy navigation and compliance with the branding of the university to boost alumni engagement.• Created and updated content on platforms like Blackboard NetCommunity, incorporating visually appealing thumbnails and graphics to enhance the user experience and digital outreach.	

Graduate Assistant in Registrar Office

- Successfully operates within the organizational framework of the U.S.-based institution, leveraging skills in software applications like Banner and Service Desk for essential administrative functions.
- Utilized advanced proficiency in administrative software such as Banner for tasks like class adjustments, grade changes, course additions, new course setups, and course deletions.
- Managed diverse responsibilities including service desk operations, transcript printing (Prachment.com), and diploma mailing to ensure smooth administrative processes.
- Contributed to the successful execution of commencement events, demonstrating a commitment to facilitating seamless processes.
- Engaged in effective communication and problem-solving by navigating software tools like Banner, Service Desk, and Prachments for tasks such as transcript printing.
- Implemented imaging processes using Application Xtender to digitize and organize documents, enhancing accessibility and efficiency in document management aligning with U.S. organizational standards.

Alphaed.in, Hyd, TS, INDIA

Sep 2020 – Sep 2023

Co-Founder and COO, AlphaED.in

- As the COO and Co-Founder at AlphaEd from September 2020 to August 2022, Played an important role in managing and enhancing the LMS and organization's operations. This encompassed the day-to-day activities, ensuring seamless operations, and providing effective leadership to the team.
- Successfully developed a promotional website, conducted boot camps, and expanded service offerings, highlighting a diverse skill set and a strong commitment to education and innovation
- Managed daily operations and strategic planning, ensuring smooth execution of organizational goals and team coordination.
- Pitched AlphaEd's solutions to schools, negotiated partnerships, closed leads, and successfully onboarded multiple institutions.
- Directed technical development while coordinating with developers to deliver reliable and efficient platforms for schools.
- Designed and delivered onboarding sessions and training workshops for teachers and administrators, increasing adoption and user satisfaction.
- Developed a promotional website, organized bootcamps, and expanded service offerings to strengthen AlphaEd's presence in the EdTech space.
- Combined leadership, business development, and technical expertise to establish AlphaEd as a trusted partner for modernizing schools with digital solutions.

EdVenture Park Incubation Foundation, Hyd, TS, INDIA

Dec 2020 - Aug 2023

Executive Team & Community Manager

- Proficient in identifying and nurturing partnerships with like-minded organizations, with a focus on collaboration and sponsorship. Skilled in creating outreach strategies and negotiating mutually beneficial sponsorship deals.
- As a social media lead, Managed content creation, user engagement, and performance analysis. This experience highlights my ability to build connections, communicate effectively, and engage with a substantial audience.
- Proficient in project management, entrepreneurship, and strategic planning, Excel in guiding startups from ideation to product-market fit, offering mentorship, resources, and strategic insights.
- Demonstrating strong work ethic, attention to detail, and a commitment to innovation, Excel in executing tasks and launching successful startup

(virtual) Marketing Intern

- As a marketing intern at DU, excelled in customer communication, lead generation, and query resolution. Developed strong communication skills, a deep understanding of customer preferences, a proactive attitude, and effective problem-solving abilities.
- This experience is a valuable asset for a marketing career, highlighting the ability to connect with customers and deliver value through communication and problem-solving.

PROJECTS:

Iftarparty.com: Core Team and Marketing Collaboration head

- Led core team operations as Marketing and Collaboration Head at iftarparty.com. Established partnerships with 20+ Instagram influencers, organized a successful product launch, and engaged with the media, resulting in a remarkable 6-fold increase in sales.
- Proficient in strategic collaboration, event management, influencer marketing, and driving substantial business growth through innovative approaches.

Bright Horizon Institute: Front-End Web Designing Instructor

- Led dynamic remote instruction in front-end web design at Bright Horizon Institute, teaching HTML, CSS, JavaScript, and DOM concepts. Designed a comprehensive curriculum, maintained a favorable instructor-to-student ratio, and used effective remote teaching tools to create an engaging learning environment.
- Proficient in remote instruction, curriculum development, and fostering collaboration in learning. Delivered comprehensive training in front-end web technologies, emphasizing both coding proficiency and design skills.

WEB APPLICATIONS:

Progress Management System | *HTML, CSS, JavaScript, API, Postman, MERN*

- Developed and deployed a MERN stack-based dashboard with automated performance alerts. for teachers which take progress card data from google sheet and give it out in graphs, Implemented secure API endpoints and modular architecture, improving load time by 40%.

Personal Finance Tracker with Data Visualization | *React, D3.js, Node.js, PostgreSQL*

- Developed a full-stack application that tracks income, expenses, and savings, integrating advanced data visualization with D3.js. Enhanced database performance by 30% with optimized PostgreSQL queries and indexing strategies.

IoT-Based Home Automation Dashboard | *React, Express.js, MongoDB, MQTT, Raspberry Pi, Blynk, IFTTT*

- Built a real-time monitoring system using IFTTT, Blynk, MQTT protocol and Raspberry Pi, reducing manual intervention, Utilized MongoDB aggregations for sensor data normalization and time-series analysis.

Network Traffic Analysis and Threat Detection | *Wireshark, Python, SSL Decryption, Linux/Unix*

- Monitored and analyzed network traffic from compromised systems, inspecting over 500 packets using Wireshark to identify login credentials and pinpoint vulnerabilities. Implemented SSL decryption to analyze encrypted communications, uncovering advanced persistent threats (APTs) and security gaps. Documented findings in a comprehensive report to strengthen incident response protocols and enhance network security.

Log Analysis for Intrusion Detection | *Wireshark, Python, Grep, Awk, Cryptography*

- Utilized Wireshark, grep, awk, and Python to analyze authentication and system logs, successfully identifying over 30 suspicious IP addresses and potential brute-force attempts. Created detailed incident reports covering login activity anomalies and flagged potential breaches for immediate remediation. Enhanced operational knowledge of log management and data protection measures to mitigate security risks effectively.

Advanced Threat Hunting and Malware Analysis | *Malware Analysis, Snort, Suricata, Ghidra, VirusTotal*

- Investigated and reverse-engineered malware using tools like IDA Pro, Ghidra, and VirusTotal, isolating behavior patterns and identifying payloads in unknown malware. Monitored network behavior using Snort and Suricata for real-time threat detection, uncovering malicious activities across networks. Delivered actionable recommendations, reducing system vulnerabilities by 40%.

Capture the Flag (CTF) Challenges and Hackathon Winner | *IDA Pro, Ghidra, Burp Suite, Binary Exploitation*

- **Loyola University Chicago Hackathon – Winner (1st Place)**
- **University of Chicago CTF - Winner Advance (3rd Place)**
- Participated in multiple **CTF challenges** and **cybersecurity hackathons**, solving complex puzzles related to binary exploitation, reverse engineering, and web application security. Led a team to develop and secure an IoT device prototype against various attack vectors. Delivered a winning presentation on mitigating IoT vulnerabilities through layered security.

HONORS, ACTIVITIES AND VOLUNTEER EXPERIENCE:

- **National Cyber League Games Scholarship Recipient** - *June 2025*
- **Volunteer at ICNA foundation** - Dec 2023 -Present, *Chicago, IL, USA*
- **Volunteer at Teach For Change** - May 2022 - Dec 2023, *Hyderabad*
- **As a contributor on field at Feeding Humanity** - 2022, *Hyderabad*.
- **Instructor for Sahib Futuristic orphanage** - October 2021 - March 2022 , *Hyderabad*.
- **Volunteer at Surge Impact Foundation** - June 2020 - August 2020, *Hyderabad*.

PROFESSIONAL ASSOCIATIONS:

- **Member, Google Women Techmakers**, Jan 2023 – Present, *Chicago, IL, USA*
- **NASA- DUTC Open Science Ambassadors**. April 2024 - Present, *Chicago, IL, USA*
- **President, Girls Who Code, College Loop@Lewis University**, June 2024 - June 2025, *Chicago, IL, USA*

LANGUAGE SKILLS:

- Fluent in English
- Fluent in Hindi
- fluent in Urdu