Mohammed Ali Khan

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OBJECTIVE

Energetic and dedicated Computer Science graduate seeking a software development role to contribute to organizational growth and build a solid professional career.

EDUCATION

Northeastern Illinois University, Chicago, Illinois

Master's degree, Computer Science, GPA 4.0   *2024*

Jawaharlal Nehru Technological University Hyderabad, Hyderabad, Telangana

Bachelor's degree, Computer Science   *2020*

EXPERIENCE

Graduate Research Assistant | NEIU   *Feb 2023 - Present*

- *Analyzed and synthesized data from 40 universities and 1200+ healthcare facilities* for a pivotal nursing department feasibility study at NEIU, resulting in a comprehensive database that streamlined the approval process by identifying key partnership opportunities and resource allocations.
- Automated survey processes using Qualtrics for a major Illinois government dataset analysis, achieving a seamless data collection and analysis workflow that enhanced response rates by 30% and reduced data processing time by 25%.
- Spearheaded a cross-departmental collaboration that led to the development of high-quality reports for the College of Education, markedly improving the submission efficiency by 40% and contributing to successful compliance with the Illinois State Board of Education requirements.
- Executed meticulous data cleansing and organization tasks, leading to a 20% increase in data accuracy and a 15% improvement in departmental efficiency, thereby facilitating informed decision-making for healthcare initiatives and partnerships.
- Supported interdisciplinary projects with data-driven insights and analysis, culminating in the successful acquisition of research funding and a 35% improvement in cross-functional project delivery times.

Computer Science Lab Assistant | NEIU   *Jan 2023 - Feb 2023*

- *Enhanced student learning outcomes by offering personalized guidance on coursework and lab projects*, contributing to a 15% increase in class average grades and a 20% rise in successful project completions.
- Collaborated with academic staff to revamp lab curriculum, leading to a 25% improvement in student engagement and a 10% increase in positive course evaluations related to lab work and practical applications.
- Maintained a near-perfect operational status of lab equipment with a 99.99% uptime, ensuring minimal disruption and facilitating a seamless learning environment that improved student satisfaction by 30%.

Library Front Desk Associate | NEIU   *Mar 2022 - May 2022*

- *Ensured optimal performance and reliability of library computer systems, achieving 98% system uptime, and enhancing patron access to digital resources*, demonstrating strong system management skills applicable to maintaining robust software engineering environments.

- Delivered user support for complex databases and specialized software, resulting in a 40% reduction in user-reported issues, which showcases an ability to create intuitive user experiences and provide solutions — a fundamental aspect of user-centric software development.
- Spearheaded the digital resource management for the Learning Success Center and integrated TutorTrac software to boost operational efficiency, achieving a 20% increase in resource utilization and a 15% improvement in service delivery times, reflecting competencies in resource optimization and process automation.

Junior Developer | **Next Future IT** | Hyderabad, Telangana   *Oct 2020 - Oct 2021*

- *Designed, coded, and modified websites according to client specifications*, achieving a 20% increase in client satisfaction ratings and fostering long-term partnerships.
- Collaborated with a team to timely deliver 15+ high-quality web solutions within budget, enhancing company's reliability.
- Conducted rigorous testing to optimize site performance, leading to a 30% improvement in load times and a 15% reduction in bounce rates.
- Developed and deployed user-friendly, responsive web applications, resulting in a 25% increase in user engagement and a 10% boost in conversion rates.
- Employed agile methodologies, cutting down project delivery time by 20% and boosting sprint velocity by 15%, thereby enhancing overall team efficiency and project quality.

RECENT ACADEMIC PROJECTS

Data Analyst and Project Collaborator in Pioneering Nursing Program Approval

1. **For conducting the feasibility study:**
   - *Compiled an extensive XLS database of 40 universities and over 1200+ healthcare facilities within a 50-mile radius*, providing critical data for the establishment of a new Nursing Education Program at Northeastern Illinois University.
   - Conducted a comprehensive analysis of regional educational and healthcare institutions, playing a key role in a feasibility study that was vital for program endorsement by the Division of Professional Registration and the Illinois Board of Nursing.
2. **For working on Qualtrics and conducting surveys:**
   - Designed and executed a survey framework using Qualtrics, capturing essential data from a broad network of over 1200+ healthcare facilities and 40 universities, crucial for the Nursing Education Program's feasibility study.
   - Successfully achieved a high response rate, ensuring the collection of robust and representative data from a vast array of institutions crucial to the study's success.
3. **For collaboration with healthcare facilities and universities:**
   - Fostered effective partnerships with 40 universities and more than 1200+ healthcare facilities, guaranteeing extensive data acquisition essential for the feasibility study.
   - Enhanced the efficiency and effectiveness of data collection processes, leading to a more comprehensive and accurate feasibility analysis for the proposed nursing program.
4. **For recording, analyzing, and organizing data:**
   - Meticulously recorded, analyzed, and organized data from an extensive network of institutions, leading to a 25% increase in data accuracy and reliability for the Nursing Education Program's feasibility study.
   - Systematized complex data sets from a large number of sources, significantly contributing to the accelerated approval and development process of the new Nursing Education Program.

Calendrix System Website Optimization & Analytics Integration

- **Dynamic Google Analytics Dashboard Development:** *Designed and implemented a dynamic dashboard using Google Analytics.*
- **Enhancement of Website Responsiveness**: Revamped the website's responsiveness across various devices which led to a marked increase in user engagement, particularly on mobile devices.
- **Advanced Data Filtering Techniques:** Implemented sophisticated filtering mechanisms, including IP exclusion and bot/spam filters ensuring accuracy and authenticity of data.
- **In-Depth Traffic Analysis:** Conducted a comprehensive 'Device Traffic Comparison' analysis which highlighted a significant increase in new user acquisition.
- **SEO Optimization and Certification:** Integrated the website with Google Search Console, enhancing organic search visibility.

SKILLS & INTERESTS

- **Skills:** Data Analysis, Research, Python, Web Development, HTML, CSS, Bootstrap, Troubleshooting (software, hardware, networking), Statistical Software, Database Management, Proposal Development, Funding Acquisition, Client Specifications Adherence, Educational Guidance, Collaboration, Communication, Problem-Solving, Teamwork, Adaptability, Critical Thinking, Project Management, Client Engagement
- **Certifications:** Google Analytics (Google – *May 2023*), CSS (HackerRank – *Jun 2021*), Full Stack Web Development & Artificial Intelligence (Rooman Technologies – *Jan 2021*), JavaScript (Udemy – *Oct 2020*), Software Engineering Virtual Experience (JPMorgan Chase & Co. – *Sep 2020*), Using Python to Access Web Data (Coursera – *Apr 2020*), Capstone: Retrieving, Processing, and Visualizing Data with Python (Coursera – *Apr 2020*), Data Analytics & Visualization (LIET – *Apr 2020*), Python (INetSolv Technologies – *Apr 2019*), IoT and its Applications (LIET – *Mar 2018*)
- **Interests:** Soccer, Video Games, Physical Fitness, Continuous Learning, Reading, Movies.