KHALED ALI AHMED

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SUMMARY

- Residing near Toronto, capable of working in-office **four days per week**; experienced and pursuing a Master's in Electrical & Computer **Engineering** (GPA: 3.3+).
- Proficient in load testing (**JMeter, LoadRunner**), Java profiling, and **dump analysis** from hands-on roles.
- **Agile** methodologies expert, with practical experience in **software development** cycles and team collaboration.
- Skilled in using **Jira** for bug tracking, demonstrating a strong track record in **project management** and issue resolution.
- Strong in computer science fundamentals, **Java, Python**; applied in real-world enterprise software development

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EDUCATION

Master of Engineering, Electrical and Computer Engineering Co-op   Sep 2023 - Dec 2024
University of Windsor, Windsor, ON

TECHNICAL SKILLS

Programming Languages: SQL, Python, C, Java, MATLAB
Web Development: HTML, CSS, JavaScript
Testing Tools: Apache JMeter, LoadRunner
Visualization Tools: Power BI, Google Sheets
Databases: MongoDB
Cloud Services: AWS, Azure
Others: Microsoft 365, MS Excel, MS Powerpoint, Jira, Asana

EMPLOYMENT EXPERIENCE

Associate Developer   Mar 2021 - Jul 2023
Cognizant Technology Solutions, Telangana, India
- Design, develop and maintain integration solutions that will enable the **BI** and analytics solutions, inclusive of ETL, data aggregation, and custom calculations following data governance best practice
- Led database maintenance initiatives, collaborating with a team of 7 to guarantee a 95% uptime and stellar performance through the creation of efficient scripts in **SQL**
- Built advanced data extraction **pipelines** to automate the data flow using **SQL**, reducing manual effort and increasing the speed and accuracy of the migration
- Participated in **data migration** (ETL) by mapping a path from the old data system to the new system through the process of data extraction and data loading. Perform data verification to determine if it was accurately translated
- Developed strategies for selecting optimal storage solutions for diverse data types, utilizing Azure Data Lake Storage to enhance the efficiency of data access and storage
- Conducted both descriptive and predictive analysis, employing advanced data mining techniques including K-Nearest Neighbors (**KNN**) and recommendation engines with **Python**
- Conducted extensive data quality checks to ensure a high degree of accuracy in the migrated data
- Implemented load testing with **JMeter** and **LoadRunner**, enhancing application performance and reliability by 20% for an enterprise project
- Spearheaded an initiative that increased team productivity by 20% and improved project timelines, demonstrating leadership in process improvement
- Led the adoption of cloud-based solutions for project collaboration, resulting in a 40% improvement in remote team **communication** and document sharing efficiency

PROJECTS

Blogging Platform Jan 2023 - Feb 2024
University of Windsor, Ontario, Canada
- Utilized **Python** and **Django** to build a responsive blogging platform, enabling user registration, post creation, and content management
- Implemented Django's ORM for efficient database management, ensuring smooth data handling and retrieval for blog post storage
- Integrated user authentication and authorization features using Django's built-in capabilities, enhancing platform security
- Designed a clean, user-friendly interface with **HTML**, **CSS**, and **Bootstrap**, improving user experience and engagement

DDR Memory Performance Monitoring Tool Jan 2024 - Feb 2024
University of Windsor, Ontario, Canada
- Developed a **Python**-based **DDR Memory** Performance Monitoring Tool for Linux, automating memory metric tracking and improving system analysis efficiency
- Implemented real-time memory usage tracking with **psutil**, enhancing system performance monitoring for up to 32 GB of memory
- Engineered memory bandwidth measurement feature, aiding in a 15% improvement in bottleneck identification and mitigation with **C**
- Designed an alert system for memory usage, setting critical thresholds that ensured proactive performance management
- Created a user-friendly interface with data visualization, leading to a 20% quicker response to performance issues

Crop Recommendation System Dec 2023 - Jan 2024
Windsor, Ontario, Canada
- Spearheaded the development of an AI-driven crop recommendation system, employing **machine learning** techniques to analyze environmental and soil data, resulting in a predictive model with 98% accuracy
- Implemented data preprocessing techniques, including feature selection and **normalization**, to enhance model performance and reliability in diverse agricultural scenarios using **Python**
- Utilized cross-validation methods to assess model stability and reliability, achieving a standard deviation of 0.69%, thereby ensuring robustness and consistency of predictions

CERTIFICATIONS/TRAINING

Learning Linux Command Line Issued Feb 2024 by LinkedIn
C Programming for Embedded Applications Issued Feb 2024 by LinkedIn
Google Data Analytics Professional Certificate Issued Mar 2022 by Coursera
Salesforce Certified Administrator Issued Mar 2022 by Salesforce