AIMEN ALEEM

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HIGHLIGHTS OF QUALIFICATIONS

Chemical Engineering Graduate Seeking Roles in Data Analytics and Energy Industry

- Proficient in data analytics and developing dashboards for business operational excellence, with advanced knowledge of Power BI, Power Automate, Power Query, and MS Excel
- Strong organizational, interpersonal, and problem-solving skills to execute and lead projects
- Can handle multiple tasks in high-paced environments and work effectively with all management levels

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EDUCATION

Bachelor of Engineering | Chemical Engineering (Co-op)   September 2019-June 2024

McMaster University, Hamilton ON

Relevant Courses
- Engineering Economics & Problem Solving • Big Data Methods & Modeling • Thermodynamics
- Electrochemistry • Optimization in Chemical Engineering • Nuclear Power Plant Systems and Operation

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RELEVANT EXPERIENCE

Supply Chain Intern   *January 2023 – December 2023*

Novocol Pharma, Cambridge ON

- Played pivotal role in the digital transformation of supply chain processes by developing dashboards using Excel, Power BI, and SQL, facilitating efficient supply management for the Logistics, Procurement, and Planning teams, resulting in the identification of $300,000 worth of damaged and expired inventory
- Complied with GMP practices and regulatory guidelines when developing work instructions and SOPs
- Actively collaborated in cross-functional and multi-departmental teams to identify and rectify process inefficiencies through creative solutions in a regulated, pharmaceutical, manufacturing environment
- Presented final project deliverables, effectively communicating complex information to a wide variety of audiences, ensuring clarity and engagement
- Improved forecasting accuracy through implementation of statistical models and monthly reporting

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SOFTWARE & PROGRAMMING SKILLS

• Python (Intermediate)	• Power BI/Automate	• Microsoft Dynamics/AX
• MATLAB (Intermediate)	• Microsoft 365/Excel/SQL	• Minitab
• Julia	• AutoCAD/Inventor	• Aspen Plus/ Energy Analyzer

ADDITIONAL EXPERIENCE

Assistant Cook/Front-End Associate   *August 2018 – October 2022*

Siam Dish Thai Cuisine, Burlington ON

- Followed company guidelines and provincial regulations for safe food preparation and work practices
- Improved customer experience and maintained wait times under 30 minutes during rush hours, handling upwards of 50 orders, by prioritizing tasks, directing cooks, and increasing order times as necessary

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Sales Representative   *September 2017-January 2018*
Quilts Etc., Burlington ON
- Proactively engaged with clients using strong interpersonal skills by actively listening to client needs and tailoring product suggestions accordingly
- Provided detailed product and service information, assisting customers in making informed decisions
- Progressed sales goals for the week through a $1500 sale
- Responded to customer inquiries via phone and email, providing accurate and timely information

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PROJECTS

Wastewater Treatment Plant Design Optimization Capstone:
- Led a team of 3 to create a Python program that optimized and automated the simulation-based design process of an activated sludge wastewater treatment plant using GPS-X minimizing the economic cost and environmental footprint
- Implemented 4 different metaheuristic optimization algorithms to evaluate their efficacy in solving the multi-objective design problem
- Set up algorithm to handle a broad set of input simulation design changes including the addition of different process units, streams, and changes in input chemistry.
- Voted best Industrial Application on 2023 Capstone EXPO Day across all Engineering Faculties

Fault Detection via Unsupervised Clustering Methods:
- Collaborated with a group to test the effectiveness of three unsupervised fault detection machine learning methods: K-means distance-based, PCA reconstruction-based, and SVM anomaly detection
- Trained fault detection model to handle complex multivariate plant environment with 80% accuracy

Engineering Economics and Problem Solving Project:
- Worked in a group to perform preliminary design, safety, operability and techno-economic analyses of potentially building a plant that can produce 50,000 tonnes/year of 99.5 wt% DME from methanol
- Conducted capital and operating cost estimation along with NPV/IRR analyses for the proposed lifetime
- Wrote technical consulting report outlining recommendations based on risk tolerances and shareholder expectations

Hydrogen Economy Supply Chain Project
- Collaborated in a group to design a plant that would compress, store, transport, and produce hydrogen
- Performed advance functions in Aspen Plus and Excel such as sensitivity analyses and optimization to extract useful data needed to determine unit operation model settings
- Conducted Techno-Economic and Life Cycle Analysis of current compression supply chain and proposed formic acid supply chain to assess impact and feasibility of switching
- Managed time effectively to meet established goals and timelines for delegated tasks, while peer-editing other areas completed by teammates

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CERTIFICATIONS

- WHMIS
- ISO 17025:2017 (Udemy)
- Ontario Food Handler Certificate

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