Saad Shahbaz

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EDUCATION

Bachelor of Arts: Major: Computer Science, Minor: Management McGill University, Montreal

September 2019 - December 2022

- CGPA: 3.77 (Dean's Honour List, Tomlinson Award)
- Courses: Data Structures and Algorithms, Databases, Data Science, Applied Machine Learning, Software Design, Programming Challenges, Operating Systems, Principles of Web Development

TECHNICAL SKILLS

- Languages: Python, Java, C#, C, JavaScript, Bash, SQL, Assembly, VBA, R, CSS
- Technologies: Git, Linux, Docker, Power BI, Jira, MySQL, Pandas, NumPy, PyTorch, Tensorflow, React, HTML, MongoDB, Node.js, Jenkins, TeamCity, BitBucket
- Cloud Computing: Amazon Web Services (AWS), Microsoft Azure, Oracle

WORK EXPERIENCE

Full Stack Developer Intern

August 2022 - Present

Air Liquide, Montreal

- Built the PowerZone application to provide the sales team to identify potential clients based on their location.
- Developed the front-end in Vue.js to allow the UI to show the postal codes for the selected PowerZone on the heatmap and allow the user to edit the prospects to provide feedback.
- Designed the login page to provide access based on user credentials retrieved from the company's authenticator and enable them to export the leads to Salesforce.
- Technology Stack: Vue.js, Flask, JavaScript, Postgres, HTML, CSS, RabbitMQ, AWS, GitLab, Jira
 Software Engineer Intern

 May 2022 August 2022

Citi Bank, Mississauga

- Migrated a custom solution to a Citi wide enterprise by developing a CI/CD pipeline on TeamCity for the deployment of add-ons and an in-house application for each user.
- Built a C# application to deploy the add-ons to the users' registries, folders as well creating shortcuts impacting around 2500 users to seamlessly switch between environments and streams.
- Reduced deployment and update times by 60% by creating individual agents for each application enhancing user experience and providing four times stable versions for first time installations.
- Technology Stack: C#, TeamCity, Docker, BitBucket, Jira, React, XML, Snowflake

Data Science and Analytics Intern

May 2021 – April 2022

Air Liquide, Montreal

- Headed the Sales and Operation planning (S&OP) project, forecasting the sales, quantity and volume for the next 18 months using Time Series analysis with an accuracy of 95%.
- Constructed a Natural Language Processing (NLP) model for the Email Classification project to internally
 classify English and French emails to their respective departments with an accuracy of 96%.
- Developed 90% custom Microsoft Power BI dashboards, visualizations and interfaces to deliver meaningful and actionable insights on the S&OP, Email Classifications and several other projects.
- Technology Stack: Python, SQL, Power BI, Jira, Git, Docker, Pandas, NumPy, MS Excel, VBA

Vice President Finance and Sponsorship

January 2022 - Present

Hack4Impact, Montreal

- Proposed sponsorship opportunities to 5 companies with a 100% success rate resulting in the highest amount
 of sponsorship money Hack4Impact has received since its establishment.
- Lead the recruitment season for the club preparing for the technical rounds, interviewing 54 developers, and setting up boot camp for the 12 hired developers.
- Collaborated with six developers to develop a mobile app for MADA community center using Flask and React.

SELF-DIRECTED PROJECTS

Deep Fakes Detection

March 2022

- Evaluated if a video is deepfake using CNNs and RNNs to detect inter-frame & intra-frame inconsistencies.
 SqueezeNet: AlexNet Accuracy

 December 2021
 - Implemented the SqueezeNet architecture proposed in the <u>paper</u> introducing minor modifications to the model showcasing a systematic approach to building CNN architectures using **Python** and **PyTorch**.

Mini Operating System

January 2021

 Developed a mini operating system by implementing a fully functional kernel, OS Boot Sequence, Backing Store, Memory Manager, and drivers using C and Bash.