# **Saad Shahbaz**

Montreal, QC **|** [saad.shahbaz@mail.mcgill.ca](mailto:saad.shahbaz@mail.mcgill.ca) **|** 438-924-0766 **|**[LinkedIn](https://www.linkedin.com/in/saadshahbaz/) | [GitHub](https://github.com/saadshahbaz) | [Website](https://saadshahbaz.github.io/portfolio/index.html)

**EDUCATION**

**McGill University Montreal, QC**

*Bachelor of Arts: Major: Computer Science, Minor: Management Graduation Date: December 2022*

* CGPA: 3.77 - Tomlinson Award, Dean’s Honour List (2020-2021)

**TECHNICAL SKILLS**

**Languages**: Python, Java, C#, C, JavaScript, Bash, SQL, Assembly, VBA, R, CSS

**Technologies:** Git, Linux, Docker, Power BI, Jira, PHP, MySQL, Pandas, NumPy, PyTorch, TensorFlow, React, HTML, MongoDB, Node.js, Jenkins, TeamCity, Bitbucket, AWS, Microsoft Azure, Oracle

**WORK & LEADERSHIP EXPERIENCE**

**Air Liquide Montreal, QC**

*Full Stack Developer Intern August 2022 – Present*

* Built an application named PowerZone to provide 8 sales managers and 100+ sales team members a platform to identify potential clients based on locations retrieved from the Canadian census and external sources data.
* Developed a UI using **Vue.js** to display the postal codes for the power zones on a heatmap, allowing users to create leads via a form-like interface and utilized **Postgres** and **Postman** to save the history of leads created by the user to the server.

**Technology Stack:** Vue.js, Flask, JavaScript, Postgres, HTML, CSS, Postman, SQL, RabbitMQ, AWS, GitLab, Jira

**Citi Bank Mississauga, ON**

*Software Engineer Intern May 2022 – August 2022*

* Migrated from ADM to ATOM (deployment tool) to deploy add-ons and Composer (an in-house research tool) to employees’ machines, saving a tremendous amount of resources for Citi through the removal of data central dependency.
* Developed a **CI/CD** pipeline on **TeamCity**, integrating it with **uDeploy** that pushes artifacts automatically to ATOM, thus allowing around 2500 users to switch between environments and streams seamlessly.
* Programmed an executable using **C#** that deploys the files pushed by ATOM directly to the machines’ registries and folders, creating shortcuts for Composer, reducing deployment and update times by 60% and increasing version stability by 45%.

**Technology Stack:** C#, TeamCity, Docker, Bitbucket, Jira, React, XML, Snowflake

**Air Liquide Montreal, QC**

*Data Science Intern May 2021 – April 2022*

* Spearheaded the Sales and Operation Planning (S&OP) project, forecasting the sales, quantity and volume for the next 18 months using Time Series analysis in **Python**, achieving an accuracy of 95% by testing several ML models.
* Constructed a Natural Language Processing (NLP) model for an Email Classification project to internally classify English and French emails to their respective departments with an accuracy of 96%.
* Customized 20+ **MS 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, Pandas, NumPy, MS Excel, VBA

**Hack4Impact Montreal, QC**

*Vice President Finance and Software Engineer February 2021 – Present*

* Networked with industry professionals from 5 separate companies, presenting the club’s sponsorship proposal, which resulted in a 100% increase in sponsorship revenue compared to the previous year.
* Led the recruitment process for the club, interviewing 54 developers and designing the 3-day full stack development boot camp for the 12 newly hired developers.
* Collaborated with 6 developers to develop a mobile app for the MADA community center using **Flask** and **React**, which was used to aid food distribution for the elderly community in Montreal.

**PROJECTS**

**EventBrite Ticket Manager Software** *April 2022*

* Built a well-designed and well-documented Object-Oriented program in **Java** for EventBrite, the event management and ticketing website, allowing customers to schedule, and calculate the expected profit from different events. Specific design patterns - e.g., Composite, Flyweight, Singleton, were used when necessary for a coherent and efficient code base.