

Saad Shahbaz

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EDUCATION

McGill University

Bachelor of Arts: Major: Computer Science, Minor: Management

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

Montreal, QC

September 2019 – December 2022

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

Air Liquide

Montreal, QC

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** to save the history of leads created by the user.
- Designed the login page to provide access based on the user credentials retrieved from the company's authenticator and programmed an option to export user-created leads directly to Salesforce or MS Excel.

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

Software Engineer Intern

Citi Bank

Mississauga, ON

May 2022 – August 2022

- Migrated from ADM to ATOM for the deployment of 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 seamlessly switch between environments and streams.
- Programmed an executable using **C#**, which deploys the files pushed by ATOM directly to the machines' registries and folders, also creating shortcuts for Composer that reduce deployment and update times by 60% and increase version stability by 45% for first time installations.
- Maintained 15 **Confluence** pages to provide demos for employees of different technical backgrounds.

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

Data Science and Analytics Intern

Air Liquide

Montreal, QC

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 including **ARIMA**, **XG Boost** and **Facebook Prophet**.
- 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

LEADERSHIP EXPERIENCE

Vice President Finance and Sponsorship

Hack4Impact

Montreal, QC

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.
- Lead 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.