Saad Shahbaz

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EDUCATION

McGill University

BA Computer Science, Minor Management

• CGPA: 3.79 - Dean's Honour List, Tomlinson Award

Sep 2019 – Dec 2022 Montreal, QC

TECHNICAL SKILLS

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

WORK EXPERIENCE

Software Developer Intern

CitiBank

May 2022 – Aug 2022 Mississauga, ON

May 2021 – Dec 2022 Montreal, QC

- 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% for first-time installations.
- Technology Stack: C#, TeamCity, Python, Docker, Bitbucket, Jira, React, XML, Snowflake

Data Science Intern

Air Liquide

Led the S&OP (Sales and Operations) project, utilizing Python and machine learning models (such as
 ARIMA and Facebook Prophet) to accurately predict sales, volume, and quantity for the next 18 months
 with an accuracy rate of 95%.

- Developed the user interface using **Vue.js** for PowerZone, an application to identify potential clients based on zip code for 8 sales managers and over 100 sales team members.
- Conducted extensive data cleaning for 10+ projects using **Python** and **Excel**, including S&OP, CPQ, email classifications, and churn, to ensure high-quality and accurate results from machine learning models.
- 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

Vice President Finance and Software Engineer

Hack4Impact

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.

Feb 2021 – Dec 2022 Montreal, QC

PROJECTS

TA Management Website 🔗

Oct 2022 – Dec 2022

- Led a team to develop a dynamic and interactive TA Management website using **HTML**, **PHP**, and **JavaScript** for the McGill School of Computer Science competition, winning first place.
- Used **SQLite3** to build a relational database for storing and retrieving data for an application, enabling the website to be hosted on McGill's servers.
- Implemented proper authentication for user access and customized pages based on user privileges.

Eventbrite Ticket Manager Software 🔗

Apr 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.

Covid Vaccination Database Application @

• Created an interactive app for the COVID-19 vaccination campaign. Facilitated data management using JDBC and IBM DB2. Implemented using **Java** and **SQL**. Created a relational database model for the same.

Feb 2021 – Apr 2021