

# ZAKIR DAWOOD

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## TECHNICAL SKILLS

**Languages/Frameworks:** Python, SQL, JavaScript, HTML, CSS, Django, Java, Pandas, NumPy, Scikit-Learn, Elixir

**Tools:** Git, GitHub, Excel, Power BI, Hadoop, Hive, Firebase, Oracle, JupyterLab, Visual Studio, VS Code, SSRS, SSAS, Unix

## EXPERIENCE

### Mastercard

Vancouver, BC, Canada

Associate Consultant (Data Analytics) Intern

May 2024 - Aug 2024

- Developed fraud detection rules for financial institutions processing hundreds of millions of transactions by leveraging data science methodologies such as decision trees and technologies including Pandas, PySpark and Excel, resulting in increased fraud capture rates and annual savings of \$400,000+
- Conducted performance analysis of a major US coffee chain against competitor benchmarks and developed strategies targeting specific demographics and geographical regions to increase transaction counts
- Automated and optimized the data flow of 30+ billion transactions from Mastercard's cloud data warehouse into a comprehensive dashboard for issuers, acquirers and merchants to leverage and improve authentication rates and fraud detection using Python, Impala, Cloudera and Power BI

### L3Harris Technologies

Hamilton, ON, Canada

Business Intelligence Developer Intern

May 2022 - Aug 2023

- Designed, developed and tested data models, visualizations and ETLs using SQL, Power BI, SSRS, SSAS and SSIS, generating savings of \$500,000+
- Built and deployed the team's first dataset and dashboard on the Cloud, enabling the Digital Engineering teams to track their real-time Azure DevOps and PLM metrics across different divisions in Canada
- Spearheaded a large project to empower supervisors across the organization to securely access advanced visualizations
- Analyzed departmental trends and implemented changes accordingly, including developer-driven initiatives and expansion into new departments, resulting in a 40% increase in new report development requests
- Ensured minimal downtime for 1200+ users by maintaining 1000+ reports, dashboards and servers that extract data from 15+ data sources, including Infor, Snowflake, SharePoint, Excel and SQL servers

## PROJECTS

**Recreation Club Application** | HTML, CSS, JavaScript, Python, Django, Semantic UI

- Developed a responsive web application that supports scheduling, accounting, communication and payment features
- Used Django's authentication libraries to deploy a security architecture with various security groups and permissions

**COVID-19 Tracker - Ryerson University Hacks** | Python, Selenium

- Led a team of programmers to create a Discord bot that conveys live COVID-19 statistics via automated web browsing
- Formulated web scraping algorithms to filter out unreliable information with 98% accuracy

**Flight Reservation System** | Java

- Developed an object-oriented flight reservation back-end, enabling users to reserve seats on flights at specified airports
- Created exception handling and rigorous unit tests for the 15+ classes to verify the integrity of the system

**NBA Dashboard** | Power BI, DAX, REST API

- Built a comprehensive dashboard that conveys insights and statistics on teams and players in the NBA
- Strategically used REST APIs, overcoming request limitations by scheduling requests to extract 500K+ records

## EDUCATION

Toronto Metropolitan University (Formerly Ryerson University)

Toronto, ON, Canada

Bachelor of Science in Computer Science (Co-op)

Sep 2020 - Apr 2025

- **4.15/4.33 GPA**, Department of Computer Science Award - 2nd Year, Dean's List (x3)
- Relevant Courses: Software Engineering, Artificial Intelligence, Data Structures, Database Systems, Data Science