

# Ismet Bilgic

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## EDUCATION

**Bachelor of Applied Science, Software Engineering (CO-OP)**

**Expected April 2027**

University of Ottawa, Ottawa, ON

- Awarded Chancellor's Scholarship | **GPA: 3.94/4**

## WORK EXPERIENCE

**Data Engineer Intern**

**September 2024-Present**

Bombardier Aerospace, Dorval, Quebec

- Developed a **Python** automation tool using **FFT cross-correlation** and **multithreaded processing** to validate signal lag between two flight recording systems across **1,400+ parameters** for new software version certification, reducing a weeks-long manual process requiring 3-4 engineers to **under an hour**
- Engineered two **Snowflake** views (**300+ lines** each) for Global 7500 and retrofit fleet watchlists, automating daily **Power BI** reporting via key-pair authentication, eliminating **1-1.5 days** of weekly manual work for **50-60+ stakeholders** across maintenance, AHMS, and engineering
- Built an end-to-end **Python** data pipeline (validation, cleaning, processing, enrichment) to calculate monthly aircraft data transfer KPIs across **Global 7500** and retrofit fleets, integrating **Snowflake**, **AWS S3**, and **DSP** reporting sources, reducing a 2-hour manual process to **30 minutes**
- Created **Python** tools for fleet-scale parameter investigations, including direct **AWS S3** streaming, validity analysis across **150+ aircraft sessions**, and autopilot event detection across **Global 5000** and **CL650** fleets

**Deputy Coding Team Lead**

**October 2024-June 2025**

Scale AI, Remote

- Oversaw code review and quality control for **250+** tasks across **Python, Java, SQL, HTML/CSS, and JavaScript**, significantly improving AI model accuracy and localization across English, French, and Turkish models
- Achieved an average feedback score of **4.4/5** as measured by **client satisfaction**, by delivering high-quality and accurate solutions with attention to detail
- Led and supported a team of over **120 coders**, coordinating task assignments, maintaining quality standards, and ensuring timely project delivery

**IT Operations Specialist Intern**

**January 2024-April 2024**

Deloitte Touche Tohmatsu Limited, Ottawa, Ontario

- Engineered **Python solutions** leveraging libraries like **pandas** and **NumPy** to categorize **47 types** of stuck manifests and automate troubleshooting, reducing the time to identify and resolve issues from **45 minutes to 3-5 minutes**
- Enhanced data integrity by crafting complex **SQL** queries using tools like SSMS and MySQL, automating data extraction and analysis for stuck manifests
- Spearheaded **automation efforts** by developing **PowerShell** and **Python** scripts, including **Selenium-based** tools for pre-patch web verifications and Excel data transfers, streamlining processes and saving the team **20% in man-hours over four months** while enhancing system reliability

**Program Analyst Intern**

**May 2023-September 2023**

Bombardier Aerospace, Dorval, Quebec

- Streamlined data management processes using **Python** and libraries like **openpyxl** to automate data transfer and manipulation across various file formats, reducing a week's workload to just **three hours per week**, significantly improving efficiency
- Automated milestone tracking using **SQL**, enhancing efficiency and accuracy in monitoring project progress

## PROJECTS

**Echo Explorer** | Java, SQL, Google Maps API

- Developed the Echo Explorer **Android application** using **Java** and **SQL**, creating a user-friendly navigation tool tailored for accessibility and usability
- Integrated **Google Maps API** to provide real-time navigation assistance, enhancing functionality and improving the experience for visually impaired users

## SKILLS

**Languages:** Java, Python, SQL, HTML/CSS, JavaScript, Bash, PowerShell

**Frameworks/Libraries:** pandas, NumPy, openpyxl, Selenium

**Databases/Cloud:** PostgreSQL, MySQL, Snowflake, AWS S3, AWS Lambda

**Tools:** Power BI, Git, SSMS