





MARSEL BAKASHOV


Software Engineering Student Data Science


 [Portfolio](#)

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 [GitHub](#)

 Montreal, Canada

 [LinkedIn](#)

ABOUT ME

Passionate and curious software engineering student with a strong interest in data science. Proven ability to work both independently and collaboratively, with a drive to learn, grow, and contribute to innovative projects.

SKILLS

Programming: Python, C++, Java, SQL, Bash, JavaScript, HTML, R.

Tools: Docker, Linux, Git, Airflow, Azure, Power BI, Figma.

Languages: French, English, Russian, Spanish, Korean

EDUCATION

9/2021 – 12/2025

Bachelor of Software Engineering
GPA: 3.2 / 4.0

Polytechnique Montreal
Montreal, Canada

2/2025 – 6/2025

B.S. in Computer Engineering
Academic Exchange

Korea University College of Engineering
Seoul, South Korea

EXPERIENCE

5/2024 – 9/2024

Data Scientist Intern
• Designed an AI-powered unified indexing system centralizing internal content sources for semantic and keyword-based document search.
• Implemented large-scale embedding generation via Azure AI Search; evaluated models (e.g., ELSER, BGE, Cohere).
ELK / ETL / Airflow / Python / Azure AI Search / Hugging Face / Cohere

Radio-Canada / CBC

9/2023 – 12/2023

Full-Stack Developer Intern
• Optimized websites using Next.js (SSR), improving performance by 15%.
• Applied analytics to drive improvements in an Agile setup with CI, testing, and code reviews.
Next.js / React / Node.js / TypeScript

Stingray

5/2023 – 7/2023

Full-Stack Web Developer (Contract)
• Redesigned the website, resulting in +180% traffic and 120 clicks/month through improved SEO.
HTML / CSS / SEO / JavaScript

Paragon Reception Hall

5/2022 – 7/2022

Business Intelligence Analyst (Part-time)
• Automated data collection and analysis via Excel macros and standardized Power BI reports.
Excel / Power BI / Visual Basic

Van De Water

PROJECTS

Personal Project

Weather-Based Disease Outbreak Prediction
• Predicted outbreaks from climate data using classification models (Logistic Regression, SVM, Decision Trees) with F1-score and AUC-ROC evaluation.
• Identified critical weather patterns using FP-Growth and association rules.
Python / Jupyter / pandas / scikit-learn / Matplotlib / FP-Growth

[GitHub](#)

Personal Project

Harmonic Hunch
• Built an interactive game using AI models (Demucs, DALL-E-3) to generate real-time audio tracks and visuals.
React / Next.js / Node.js / TypeScript / WebSocket / Demucs / DALL-E-3

[GitHub](#)

Academic Project

AI Agent
• Developed an AI agent for a strategic game using local search, heuristics, and constraints.
Python / MiniZinc / Genetic Algorithms / Local Search

[GitHub](#)

EXTRACURRICULAR ACTIVITIES

1/2024 – 8/2024

Teaching Assistant – Discrete Mathematics
• Led review sessions, graded assignments, and supported 80+ students in logic and graph theory.

Polytechnique Montreal

1/2024 – 5/2024

Sponsorship Director
• Raised over \$22,000 in funding and led a sponsorship team with weekly meetings.

PolyAI Hackathon