

Ilian Khankhalaev

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Technical Skills

Programming Languages: Python, R, SQL, JavaScript, C/C++, HTML, CSS

Libraries: Pandas, NumPy, scikit-learn, CatBoost, Matplotlib, Seaborn, dplyr/tidyr (R)

Developer Tools: Git/GitHub, GitHub Pages/Actions, Render, VS Code, npm, pip, venv, Docker, Spreadsheets (Excel, Google Sheets), Jupyter Notebook, Tableau

Technologies/Frameworks: React, React Router, Vite, Flask, Leaflet, REST APIs, Web APIs

Databases: SQLite

Other: Linux, Data Cleaning & Feature Engineering, Technical Documentation, ETL, Cross-Validation, Hyperparameter Tuning

Technical Projects

• Graduate Underemployment Prediction

Jan. 2026

ML Pipeline | *Python, CatBoost, Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, Jupyter*

— Built a modular **ML pipeline** for NGS hiring data with stratified K-fold CV and hyperparameter tuning

— Trained a **CatBoost classifier**, achieved 0.75 public / 0.71 private leaderboard accuracy (top 4/14 teams)

• Customer Churn Dashboard

Feb. 2026

Analytics & Visualization | *SQL, R, SQLite, Tableau, DBI, RSQLite*

— Built **SQL** → **R** → **Tableau** pipeline: staging/KPI views in SQL, aggregation in R, executive dashboard on Tableau Public

— Delivered **churn rate**, revenue-at-risk, and segment breakdowns (contract, tenure, internet) with heatmaps and **MRR** views

• TelusGuardAI

Jan. 2026

ML-Powered Network Impact System | *Python, Flask, React, Vite, Leaflet, REST APIs, GitHub Actions, Render*

— Built multi-agent AI system (Event → Web → Geospatial) using LLMs (Gemma, DeepSeek, GPT) to turn prompts into geospatial impact

— Implemented Flask backend (orchestrator, agents, weather/KPI APIs) and React + Leaflet frontend; deployed on Render and GH-Pages

— Integrated **OpenWeatherMap** and **Zenodo** APIs, added caching and clear error handling

• Airbnb Market Analysis

Nov. 2025

Data Pipeline & Visualization | *Python, Pandas, SQLite, SQL, Jupyter, Tableau, Matplotlib, Seaborn*

— Built **ETL** → **SQLite** → **SQL** pipeline for Vancouver Inside Airbnb data; **window functions** for median price, outlier filtering

— Wrote neighborhood and room-type summary **queries**; exported to CSV and built interactive **Tableau dashboard**

— Added **Jupyter EDA** notebook with Matplotlib/Seaborn for exploration

Work Experience

Data Analyst

Mar. 2025 — Dec. 2025

SYNKRON | *Data Analysis, Python, Machine Learning, Statistics, Data Visualization*

Miami, Florida (Remote)

— Analyzed structured datasets using **Python (Pandas, NumPy)** to identify trends and data quality issues

— Used existing forecasting/**ML models** as black-box tools to generate and interpret predictive outputs

— Built reports and visualizations using **Matplotlib/Seaborn** and **Tableau** for stakeholder communication

Operations & Data Assistant

May 2021 — Aug. 2023

Khankhalaev Gallery | *Operational Data Management, Data Organization, Spreadsheets, Logistics Planning*

Moscow, Russia

— Managed pricing, inventory, and logistics data using **spreadsheets (Excel/Google Sheets)** with data cleaning checks

— Produced operational summaries and tracking reports for exhibitions and sales

Leadership & Mentorship

Calculus Mentor

Jan. 2026 — Present

Simon Fraser University | *Mathematics, Problem Solving, Teaching, Analytical Thinking*

Burnaby, BC

— Assisted students during seminars by solving and explaining calculus and foundational mathematics problems

— Supported problem-solving sessions by breaking down complex concepts into clear, step-by-step explanations

Education

Simon Fraser University

Burnaby, BC

Bachelor of Applied Science in Computer Science & Minor in Mathematics

Jan. 2025 — Expected Graduation: Dec. 2028

Fraser International College

Burnaby, BC

Bachelor of Applied Science in Computer Science, GPA: 3.84

Jan. 2024 — Dec. 2024

Certifications & Awards

Awards: Dean's Honour Roll — Fall 2024

Certifications: Pandas (Kaggle), Supervised Machine Learning — Regression and Classification (Stanford University)