Ilian Khankhalaev

Vancouver, BC, Canada

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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)