

Aleksey “Alex” Ilyukh

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Professional Summary

Data Analytics and Data Engineering professional with hands-on experience translating business data into actionable insights through dashboards, reporting, and ETL pipelines. Proficient in Python, SQL, Power BI, Databricks, Apache Spark, and AWS, with applied project work spanning machine learning, data modeling, and cloud-based pipeline architecture. Brings a cross-functional background in sales operations, CRM analytics, and stakeholder reporting — with a track record of turning raw data into measurable outcomes.

Skills and Tools

Python | SQL | R | Statistical Analysis | Machine Learning | Power BI | Tableau | Excel (Pivot Tables, VLOOKUP/XLOOKUP) | Google Sheets | KPI Reporting | Dashboard Design | Databricks | Apache Spark | ETL Pipelines (Medallion Architecture) | Data Modeling | AWS (S3, EC2) | BigQuery | Salesforce CRM | Bilingual (English, Russian) | Cross-functional Collaboration | Stakeholder Communication

Work Experience

Analytics and Development Intern at GCA Research & Consulting Services, Inc - Remote **Nov 2024 - Present**

- Supporting early-stage proprietary product development in a confidential capacity; concurrent independent study in data analytics, ETL pipelines, and cloud architecture

Inside Sales Representative at Quill (Staples inc.) – Lincolnshire, IL **Apr 2021 – Feb 2023**

- Built operational dashboards to track productivity KPIs and forecast performance trends, improving efficiency by 33%
- Used Salesforce CRM data to perform variance analysis and identify performance gaps against sales targets

Sales Associate at Sleep Number – Deerfield, IL **Aug 2023 – Mar 2024**

- Maintained customer interaction records and sales pipeline data in Indigo CRM
- Monitored sales performance trends via Power BI dashboards to inform daily strategy

Marketing Intern at Kaplan Law offices – Northbrook, IL **Jan 2019 – May 2019**

- Analyzed SEO keyword and website performance data using Google Analytics to improve search rankings and visibility
- Tracked and reported weekly marketing performance metrics, summarizing key insights for stakeholders
- Organized campaign data and created structured reports and visual summaries using Google Slide

Legal Intern at Bikbova Law Office- Northbrook, IL **May 2018 - Aug 2018**

- Created structured country condition index reports by researching and synthesizing geopolitical and legal information for case preparation
- Extracted and organized key information from legal documents and client interviews into structured case files

Event Operations & Design Specialist at Neki Design – Northbrook, IL **Jun 2013 – Sep 2020**

- Coordinated logistics and cross-functional teams across multiple concurrent events under tight deadlines

Project Portfolio

Rent Responsibly **2026**

Upgraded the relocation model with live rental listings and Mapbox commute isochrones to screen housing by feasibility, safety, DTI

Relocation Feasibility Analysis **2026**

Built a Python budget model using IRS tax and HUD rent data to evaluate job relocation offers for financial feasibility

Monte Carlo Job Offer Comparison **2026**

Developed a Python Monte Carlo analysis (50,000 trials) to model outcomes between job offers to compare compensation structures

Clipboard Health Case Study **2025**

Analyzed CMS staffing data across 14,000+ nursing homes using Python/ML to identify cost inefficiencies and inform Sales strategy

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Google Data Analytics Capstone Case Study 2025

Integrated Divvy ridership and hourly weather data in RStudio to uncover trends and boost membership enrollment

Customer Call-Time Optimization Dashboard (Quill) 2022

Designed a dynamic operational dashboard monitoring real-time call duration data, boosting efficiency by 33%

Formal Education

Bachelor of Arts in Communication (Minor: Legal Studies & Philosophy) Lake Forest College – Lake Forest, IL 2019

Associate in Liberal Arts Oakton Community College – Des Plaines, IL 2016

Technical Certifications

Microsoft Power BI Data Analyst Professional Certificate - Coursera In Progress

Python, Databricks & Apache Spark: Complete ETL Engineering by Oak Academy - Udemy 2026

Learn Data Engineering with Databricks on AWS Cloud by Skill Curb - Udemy 2026

Academy Accreditation – AWS Databricks Platform Architect by Databricks - Databricks 2026

Federated Learning: Theory and Practical by Amir Anees - Udemy 2026

AWS Cloud Technical Essentials - Coursera 2025

Google Business Intelligence Professional Certificate - Coursera 2025

Google Advanced Data Analytics Professional Certificate - Coursera 2025

Google Data Analytics Professional Certificate - Coursera 2025

Extracurriculars

It's On Us Member, Secretary, Vice President Sep 2017 – May 2019

- Planned and executed "Learning with Purpose and Speaking with Purpose," an open mic night event

Coalition Against Sexual Misconduct Rep from It's On Us Jan 2019 – May 2019

- Developed "Forester Fries" student engagement initiative; planned and executed the Safe Spring Break Event

Student Women's Awareness Network Social Media & Public Relations Specialist Jan 2017 – May 2019

- Designed Instagram campaign for International Women's Day; planned annual fundraiser for the Zacharias Sexual Abuse Center

Lake Forest Debate Society Founder, Secretary and Recruiter Apr 2017 – May 2019

- Handled logistics, recruitment, and advertising, plus securing approval and coordinating schedules with other schools for debates

Lambda Chi Alpha High Kappa Jan 2017 – May 2019

- Facilitated Big Brothers mentorship & fraternity education; hosted annual Quiz Bowl fundraiser for Feed My Starving Children