

# Derin Berkay

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## Summary

Results-driven Data Engineer with hands-on experience designing scalable ETL pipelines, optimizing data architectures, and delivering cloud-based analytics solutions using Databricks, Azure, and Power BI. Proven success in driving digital transformation projects, improving data accessibility, automation, and decision-making efficiency across business teams.

## Skills

**Technologies/Programming:** SQL, Python, ELT/ETL Pipelines, NumPy, Pandas, R, Java, C, Scala, Linux

**Data Tools:** Databricks, Power BI, Azure, KNIME, Excel, Spark, QlikSense, Git, PowerPoint

**Project Management:** Agile Methodology, Scrum, Kanban, JIRA, Confluence

## Experience

### Data Engineer Intern at Procter & Gamble

Jan 2025 - Present, Toronto

- Owned product vision, roadmap, and full-cycle development for Realogram, Canada's top-priority digital product enabling real-time retailer shelf analysis, projected to drive \$200M value over 2 years by improving shelf compliance and market visibility.
- Built scalable and optimized ETL pipelines leveraging Azure Databricks and Delta Lake, ingesting, processing, and harmonizing 10M+ daily point-of-sale (POS) and image-recognition records, eliminating legacy Excel-based dataset preparation and reducing manual data preparation time by 80%.
- Acted as product manager for customer product adoption, conducting demo analyses, preparing actionable insights, and integrating final pipeline data outputs into Power BI dashboards for business users, enabling 5 stakeholders' \$5M buy-in and onboarding.
- Served as the developer and product owner for Trade Panel data migration from KNIME and NielsenIQ into Databricks for 65+ markets, building end-to-end ETL workflows to replicate and enhance legacy data extractions and transformations, resulting \$500K cost savings by eliminating licensing fees.
- Reduced 2K+ hours yearly by automating reports and creating dashboards to visualize revenue & campaign performances.

### Database & Cloud Engineer Intern at Vosyn

Jan 2024 - Apr 2024, Toronto

- Contributed towards development of AI chatbot, focusing on prompt engineering for user-aligned interactions, saving \$100k yearly by eliminating third-party vendors.
- Maintained backend server API development using Django Rest Framework and AWS.

### Data Science Intern at Arcelik

Sep 2022 - Dec 2022, Istanbul

- Completed advanced data visualization and manipulation projects on Qlik, leading to an increase in efficiency for data-driven decision-making of the sales team, saving 10 hours weekly and enhancing revenue by \$50K quarterly.
- Improved sales forecasting models using time-series analysis, resulting in a 5% increase in prediction accuracy.

### Software Engineering Intern at eKare Inc.

Apr 2022 - Sep 2022, Fairfax

- Developed an OpenCV machine learning software for automated wound detection, resulting in a 1% reduction in diagnostic times during surgical operations across several Virginia hospitals.
- Played a key role in both front-end and back-end development for the company website using React and Django, enhancing user experience and contributing to an uptick in monthly user sessions by over 2,000 visits.

## Education

### MI in Human-Centred Data Science at University of Toronto

Sep 2023- Apr 2025

CGPA: 3.9

Toronto

### MSc in Computer Science at Albert-Ludwigs-Universität Freiburg

Apr 2024-Sep 2024

Freiburg

### BSc in Computer Engineering and BSc in Industrial Engineering (DM) at Koc University

Sep 2019 - Jun 2023

Istanbul

## Certifications

### Databricks Certified Data Engineer Associate

2025