

BENJAMIN LERNER

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EDUCATION

University of Michigan

Bachelor of Science in Computer Science

Bachelor of Arts in Spanish

Expected - May 2026

Ann Arbor, MI

Relevant Coursework: Advanced Database Management Systems, Programming and Data Structures, Advanced Data Structures and Algorithms, Computer Organization, Computer Science Theory, Computer Security, Statistics

SKILLS

Languages: C/C++, Python, SQL (PSQL/MySQL/SQL*Plus/Oracle), Bash, Java, Javascript, HTML/CSS

Tools: Trino, Airflow, IntelliJ, AWS, FastAPI, Pandas, Docker, Linux/Unix, Excel, JIRA, Confluence, Git

Others: Spanish (fluent), OOP, MPP architecture, problem-solving, communication, high-standards, teamwork

EXPERIENCE

Comcast

May 2025 – Present

Query Fabric Data Engineer Intern

Denver, CO

- Migrated Teradata tables containing 5B+ records to Apache Iceberg materialized views in Trino to improve query performance and scalability
- Automated materialized view refresh workflows using Apache Airflow with robust error handling and automated triggers, reducing manual intervention and improving reliability
- Demonstrated Starburst ODBC alternative for SSIS using innovative ADO.NET / C# client for SSIS connection to Trino

Decido

May 2024 – July 2024

Adtech Data Engineer Intern

Tel Aviv, Israel

- Engineered scalable API endpoints using FastAPI to support real-time content monetization workflows
- Utilized Pandas and NumPy for high-throughput data transformation and analysis for rapid decision-making pipelines
- Managed and optimized large-scale datasets in PostgreSQL and BigQuery, supporting backend services with low-latency data access and high availability.
- Implemented secure authentication flows using OAuth 2.0, ensuring robust access control and data protection across distributed systems.
- Practiced test-driven development and leveraged Swagger for API documentation and validation, ensuring seamless integration with frontend and third-party systems.

Society of Hispanic Professional Engineers

September 2022 – Present

Mentor

Ann Arbor, MI

- Led STEM outreach initiatives to foster diversity and promote education within underrepresented communities.
- Mentored aspiring engineers with weekly meetings.

PROJECTS

Fakebook JDBC: Database Query Optimization | Java, Oracle SQL

February 2025

- Optimized 10+ complex Oracle SQL queries for a simulated social media database, improving query performance by up to 60%.
- Integrated SQL queries into a Java backend using JDBC, enabling real-time retrieval and manipulation of user data.
- Debugged and validated SQL logic in SQL*Plus, achieving 100% test case accuracy and reducing execution time significantly.

Natural Language Processing for Post Subject Identification | C++

June 2023

- Built an NLP classifier to identify subjects of 500+ student forum posts using custom tokenization and tree-based parsing
- Engineered core algorithms using recursion, function objects, and balanced binary trees, deepening understanding of memory management, ADTs, and STL map containers.

Drone Delivery Optimization using Algorithms | Python, C++

April 2022

- Implemented Traveling Salesperson and 0/1 Knapsack algorithms to optimize drone logistics for 100+ delivery points.
- Reduced delivery path length by 35% and improved payload efficiency by 40% through heuristic and dynamic programming techniques.