

Izra Bereket

612-386-7773 | bereketizra@gmail.com | linkedin.com/in/izrabereket | [personal website](#)

EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science (Starting Jan 2026)

Atlanta, GA

University of Minnesota Twin Cities

Bachelor of Arts in Computer Science

Expected Jan 2028

Minneapolis, MN

May 2025

TECHNICAL SKILLS

Languages: Python, Java, C++, TypeScript, JavaScript, SQL

Frameworks: FastAPI, REST APIs, Flask, React, PostgreSQL, Docker, Agile/Scrum

Libraries: scikit-learn, Pandas, NumPy, Matplotlib, Transformers, UMAP, K-Means

EXPERIENCE

Software Engineer

July 2025 – Present

Chicago, IL

Abbott - Core Diagnostics

- Developed ticket processing pipeline analyzing 10K+ service records to surface trends and root causes.
- Built end to end pre-processing and embedding pipeline for 10K+ text records using Pandas, NumPy, and Qwen/BAAI models, enabling fast vector-based querying and clustering.
- Implemented interactive UMAP + K-Means cluster visualizations in Streamlit, enabling exploration of grouped ticket topics and emerging issue patterns.
- Contributed backend data flow and embedding lookup logic to support real-time visualization and insights across teams.

Software Engineering Intern

Jun 2024 – Aug 2024

Chicago, IL

Abbott – Infrastructure Services

- Engineered a Python tool to query SQL databases, compare DNS entries, and trigger Ansible jobs, improving data accuracy and processing speed by 40%.
- Integrated automation scripts with ServiceNow, internal APIs, and DevOps pipelines—saving 400+ monthly labor hours by automating recording-access workflows.
- Enhanced 12 infrastructure automation scripts with advanced error handling, logging, and alerting, reducing job failure rates by 30%.

Software Engineering Intern

Sep 2023 – May 2024

Brooklyn Park, MN

Target - Cyber Threat Intelligence

- Developed and maintained internal APIs using Python and PostgreSQL to power a scalable cybersecurity-focused LMS serving 300+ professionals.
- Built user metrics dashboards, automated reporting, and progress-tracking features using React and Flask, increasing engagement by 25%.
- Automated LMS workflow components, reducing average course completion time by 15% through backend optimizations and scheduled pipelines.

PROJECTS

Network Dashboard | Python, Kafka, InfluxDB, Grafana, Docker Compose

Aug 2025

- Deployed a real-time network monitoring system processing 5,000+ simulated events/min with <2s latency using Kafka for stream ingestion.
- Developed a Python ETL pipeline to clean, transform, and load time-series data into InfluxDB.
- Built dynamic Grafana dashboards visualizing latency, packet loss, and bandwidth usage updated every 5 seconds.

Atlas | Python, gRPC, FastAPI, PostgreSQL, Redis, Kafka, Docker, Kubernetes - In Progress

- Designed gRPC microservices (Auth, Task, Metrics, Notification) with a FastAPI REST gateway and normalized PostgreSQL schemas.
- Implemented Redis caching/session layers and Kafka pipelines for async workflows including metric alerts and task summarization.
- Containerized and orchestrated services with Docker and Kubernetes; built a React dashboard with Prometheus/Grafana monitoring.