

JAEHYEOK (EDDIE) LEE

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Summary

- Software Engineering Technology student in Toronto, eligible for **Winter 2026** co op; interested in **database** and **reliability** work.
- I learn by building small reproducible systems with PostgreSQL and Docker, and I write clear **runbooks**, checklists, and decision logs so others can repeat the steps.
- **Steady teammate**: I surface risks early, keep communication clear, and practice **data confidentiality** and least privilege in labs and projects.
- Comfortable with SQL fundamentals, indexing and **EXPLAIN**, backup and restore, and simple observability with health and metrics; currently learning Azure basics and entry level CI pipelines.

Education

Centennial College

Expected Graduation: Dec 2027

Software Engineering Technology (Co op) Advanced Diploma | **GPA**: 4.37/4.5

Toronto, ON

- Led a database capstone project: designed ERD and SQL schema, created a reusable query library, and applied data normalization and quality checks.

Korea National Open University

Expected Graduation: Dec 2027

B.Sc. in Computer Science | **GPA**: 4.5/4.5

Seoul, South Korea

Technical Skills

Databases: PostgreSQL, Microsoft SQL Server (basic), MySQL (basic), SQLite, Oracle

SQL: Joins, CTEs, window functions, indexing, EXPLAIN/ANALYZE, transactions and locks, views and materialized views

Reliability & Ops (student level): backup and restore (**pg_dump** and **pg_restore**), health checks and **/metrics**, small load tests (k6), runbooks and SOPs

Dev & Scripting: Python (Pandas), Node.js/Express, Bash, Git/GitHub, Docker/Compose, Java, C#, JavaScript/TypeScript

Cloud/Infra (learning): Microsoft Azure (Monitor, Log Analytics, Key Vault, Azure SQL Database), IaC concepts (Terraform and Bicep fundamentals), Linux

Coursework & Certifications

Digital Governance | Coursera Verified

Erasmus University Rotterdam | University of Leeds

Completed: Aug 2023

Verify: WAZ9AMZNBZ46

Cloud Computing | Korea National Open University Coursework

In Progress

Topics: IaaS, PaaS, SaaS; VM; Load Balancer and Auto scaling; Blob; Azure SQL; Azure Functions

Intro to Database Systems (15-445/645) | Self study

Ongoing

Carnegie Mellon University | Fall 2024 materials

Projects

VetChart EMR | *GitHub*

Node.js, Express, Prisma/PostgreSQL, Docker

- Drafted core entities (Owner, Patient, Record, Invoice) in Prisma with basic PK, FK, and UNIQUE constraints; kept app data small for experiments.
- Exposed **/health**, **/api/db/health**, and **/metrics**; wrote short notes for backup and restore (**pg_dump** and **pg_restore**) and environment separated configs.
- Tried simple indexing and **EXPLAIN** exercises and short k6 runs to observe connection pool behavior at student scale.

PostgreSQL API with Prisma and Docker | *GitHub***Node.js, Express, PostgreSQL/SQLite, Prisma, Docker**

- Designed a simple normalized User and Todo schema with PK, FK, and UNIQUE constraints and startup migrations with Prisma.
- Implemented small REST endpoints (auth and todos) with basic error handling and request logging.
- Used **parameterized queries** and basic validation to practice safe SQL patterns; provided **.env** examples and run notes.

SQL Optimizing Lab | *GitHub*

SQLite, SQL, Bash

- Explored **EXPLAIN (QUERY PLAN)** before and after single, composite, covering, and partial indexes with simple create and drop scripts for easy repetition.
- Practiced transactions and rollbacks and reproduced basic lock cases across two sessions; noted WAL and useful pragmas.
- Wrote short takeaways on how these ideas transfer to PostgreSQL for future study.

TTC Delay Insights | *GitHub*

Python (Pandas), SQL, FastAPI, PostgreSQL

- Built a small ETL to load multi year TTC delay CSVs into PostgreSQL with minimal checks (required fields, ranges, duplicates) and a short data dictionary.
- Wrote SQL using CTEs and window functions; provided views and, where helpful, materialized views with a simple refresh script.
- Kept everything reproducible with a Dockerized setup and a brief README for how to run and explore.

Relevant Experience

Dongguk University | Medical School Administration Office

Sep 2023 – Dec 2023

Office Assistant

Seoul, South Korea

- Prepared academic and admin documents (Word, Excel, PowerPoint) using shared templates with version control discipline and clear file naming.
- Provided first line IT support (accounts, printers, basic network); documented recurring fixes into short **runbooks and SOPs** to reduce repeat issues.
- Coordinated requests with faculty and staff; maintained clear communication and **data confidentiality**.

Republic of Korea Army

May 2020 – Nov 2021

Administrative and IT Support (Mandatory Service)

South Korea

- Participated in on call style **triage** → **escalation** → **handoff**; followed runbooks and recorded timelines and after action notes.
- Maintained personnel records in digital systems with strict access control and confidentiality; authored **SOPs** and handover notes to standardize daily workflows.
- Resolved routine technical and procedural issues efficiently and escalated appropriately to keep operations running.