

Neiloy Chaudhuri

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EDUCATION

- University of Waterloo** Expected Apr. 2028
Bachelor of Applied Science, Honours Management Engineering Waterloo, ON
- **Relevant Coursework:** Databases and Software Design, Intro to ML, DSA, Software Engineering Principles

EXPERIENCE

- Spectrum Health Care** Sept. 2025 – Dec. 2025
Data Engineer Intern Toronto, ON
- Built a healthcare data compliance application in **Python** and **PostgreSQL** to automate regulatory workflows, supporting **50+** internal users across multiple operational teams.
 - Implemented backend data ingestion and transformation pipelines using **Pandas** and **NumPy** to process **100K+** structured and semi structured records per month with enforced schema validation.
 - Automated data quality checks and compliance reporting, reducing manual review effort by 65% and decreasing data related errors by 40%.
- TD Bank** Jan. 2025 – May 2025
Software Engineer Intern Toronto, ON
- Developed and maintained internal full stack applications using **Python (FastAPI)** and **Azure SQL DB**, supporting product and engineering teams across multiple business units.
 - Built backend services and data pipelines with **Python, SQL, and REST APIs** to power executive-facing dashboards, optimizing query performance and reducing data access latency by **35%**.
 - Designed and automated **ETL pipelines** in **Azure Data Factory** with upstream schema validation, retry logic, and failure alerts, improving pipeline reliability to **99%** and sustaining a **95%** on time release rate.
 - Supported TD Bank software operations through Tata Consultancy Services.
- Kal-Polymers** May 2024 – Aug. 2024
Advanced Manufacturing Engineer Intern Mississauga, ON
- Guided multi-disciplinary collaboration between engineering and production to reduce workflow downtime by 40 hours per week.
 - Implemented Lean methodologies to optimize feature-like production pipelines, boosting output by 20%.
 - Facilitated process retrospectives and iteration planning to sustain continuous improvement.

PROJECTS

- ImpostorGPT** | *React, Node.js, Express, Tailwind CSS, Google Gemini API* Jan. 2026 – Present
- Built a full-stack web application simulating a social deduction "impostor" game, with real-time role assignment and turn-based gameplay using **React** and **Tailwind CSS**.
 - Developed an **Express** backend to manage game state, player roles, and API calls for AI-generated game categories.
 - Integrated **Google Gemini API** to dynamically generate word categories and hints, enhancing replayability and game variety.
 - Designed a responsive multi-page UI with React Router for seamless navigation across game lobby, gameplay, and results screens.
 - Configured deployment on **Vercel** with serverless backend functions, enabling fast, scalable, and accessible web gameplay across devices.

SKILLS

- Programming Languages:** Python, JavaScript, SQL (PostgreSQL, MySQL), R
Frameworks & Libraries: React, Node.js, Flask, Django, Pandas, PySpark
Backend & Databases: REST APIs, PostgreSQL, MongoDB (Mongoose), Supabase
Cloud & ETL Tools: Azure Databricks, Azure Data Factory
Developer Tools: Git, Docker, CI/CD (GitHub Actions), VS Code
Fundamentals: Data Structures & Algorithms, OOP, API Design, Database Design, Testing (pytest), Debugging