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