Neiloy Chaudhuri

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EDUCATION

University of Waterloo — Spring 2027
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
Software Engineer Intern — *Toronto, ON*
- Engineered a full-stack healthcare compliance platform using **Python** and **PostgreSQL**, serving **50+** users across operational teams with automated regulatory workflows and real-time data validation.
- Designed and implemented scalable ETL pipelines processing **100,000+** records monthly, leveraging **Pandas** and **NumPy** for data transformation with custom schema validation and error handling.
- Built automated testing and monitoring systems for data QA using **PyTest** and **Pandas**, reducing manual review time by **65%** and cutting data-related errors by **40%** through proactive validation.

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.

PROJECTS

ImpostorGPT | *React, Node.js, Express, Tailwind CSS, Google Gemini API* — Jan. 2026 – Present
- Built a full-stack social deduction game with real-time role assignment using **React** and **Tailwind CSS**.
- Developed an **Express** backend managing game state, player roles, and AI-generated category API calls.
- Integrated **Google Gemini API** to dynamically generate word categories and hints for enhanced replayability.
- Designed a multi-page UI with React Router for seamless navigation across lobby, gameplay, and results.
- Deployed on **Vercel** with serverless functions for fast, scalable gameplay across devices.

CyberCTRL | *FastAPI, Python, Chrome Extension, JavaScript, LLaMA 3.2B* — Feb. 2025
- Built an AI-powered browser extension that warns developers before installing compromised packages.
- Developed a **FastAPI** backend with security scanners for API validation, package verification, and code analysis.
- Engineered domain verification, trust score calculation, and risk assessment algorithms to detect typosquatting.
- Ran **LLaMA 3.2B Instruct** locally with a structured prompt chain to extract security-relevant context from unstructured forum posts, reducing false positive alert rate by classifying intent vs. exploitability.

SKILLS

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