

# Omrahn Faqiri

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## EDUCATION

### Sheridan College

January 2024 – April 2027 (Expected)

*Honours BSc in Computer Science (Data Analytics) | Oakville, ON*

- Relevant Courses: Data Structures & Algorithms, Database Modeling, Web Application Design & Implementation, Data Analysis & Visualization, Big Data Management & Processing, Statistics for Data Science, Linear Algebra, Calculus I

## TECHNICAL SKILLS

**Languages:** Python (Pandas, NumPy, Matplotlib), C#, C++, Java, HTML, CSS

**Backend & Frameworks:** FastAPI, Spring Boot, ASP.NET, .NET Core, .NET MAUI, REST APIs

**Databases/Tools:** PostgreSQL, Supabase, SQLite, MongoDB, Git, GitHub, Docker, CI/CD

## PROJECTS

### SteamVault — Python, FastAPI, PostgreSQL, Supabase, Render, Cron Jobs

- Built a modular backend system to automatically track Steam activity and generate daily snapshots, summaries, and insights, enabling historical analysis beyond Steam's default static playtime view.
- Implemented a production-ready FastAPI architecture with Supabase PostgreSQL and a custom caching layer, reducing redundant Steam API calls and improving response performance across all analytics endpoints.
- Developed comprehensive analytics modules including 14-day trend calculations, activity heatmaps, multi-game comparisons, and streak detection, providing transparent and interpretable metrics for user activity patterns.
- Built secure admin-protected routes and scheduled cron workflows (Google Cloud Scheduler) to automate fetch cycles, daily summary generation, and uptime pings for reliable long-running operation.
- Designed a demo mode using a separate database to safely showcase analytics without exposing real Steam data.

### SafeCord — Python, FastAPI, NLP, SQLite

- Developed an AI-powered moderation bot to detect and flag potential grooming or unsafe user behavior using zero-shot classification models, enabling proactive safety insights across Discord servers.
- Designed and implemented manual flagging, watchlist, and log management commands, allowing moderators to track user risk patterns beyond offensive keyword triggers.
- Built a FastAPI backend with SQLite database for secure storage of moderation logs and NLP confidence scores, supporting traceability and cross-session risk analysis.
- Developed Jupyter Notebook to visualize behavior patterns via boxplots, heatmaps, and score distributions, showcasing potential for data-driven safety dashboards.

### Breast Cancer Detection Model Comparison — Python, Weka, Excel

- Conducted comparative analysis of Decision Tree (J48) and Neural Network (MLP) models on the Weka Breast Cancer dataset, running 30 randomized trials to ensure statistically reliable results.
- Built custom t-distribution visualization in Python (NumPy, SciPy, Matplotlib) to interpret rejection regions, improving clarity of model evaluation for academic reporting.
- Delivered a comprehensive research report with reproducible code and visualizations, demonstrating Decision Tree accuracy of 70.1% vs. Neural Network at 65.4%, supporting model reliability in early cancer detection.

### Personal Website — Astro

- Developed & deployed personal portfolio with automated CI/CD pipeline on Netlify to showcase projects and skills.

## LEADERSHIP EXPERIENCE

### Sheridan Comp Sci. in Business Society Club

September 2025 – Present

*Executive Member | Oakville, ON*

- Collaborated with executive team to plan networking events, connecting CS students with business mentors and boosting attendance by 25% from last year.
- Supported workshops on career development, encouraging technical skill growth and peer collaboration.
- Supported initiatives that integrate technical/entrepreneurial skills for students in the Computer Science program.
- Networked and brought in alumni from industry as guest speakers, connecting current students with professionals.