

Danial Samadi

Software Developer | Full Stack & Systems Engineering

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EDUCATION

Computer Programming Diploma | Algonquin College, Ottawa ON

Expected Jan 2026

- **Relevant Coursework:** Operating Systems, Database Management, OOP, Network Security.

SKILLS

- **Backend:** Go (Golang), Python, Node.js, Supabase (PostgreSQL), REST APIs, Concurrency
- **Frontend:** React 18, TypeScript, Next.js, Flutter, Tailwind CSS, HTML/CSS, Bootstrap, Vite, PWA
- **Database:** PostgreSQL, MongoDB, MySQL, Oracle, Prisma
- **DevOps & Tools:** Docker, Git, Azure DevOps, Bash, Linux, macOS

PROJECTS

Syncodoro (Offline-First PWA Habit Tracker) | *React, TypeScript, Supabase, IndexedDB*

- Built a high-performance, **offline-first habit tracker PWA** using **React** and **TypeScript**, leveraging Service Workers and local storage to guarantee 100% uptime and zero-latency interactions.
- Engineered a distributed **synchronization system** combining **Supabase** and **IndexedDB**, implementing complex conflict resolution logic to seamlessly sync habit streaks across devices when online.
- Built a comprehensive **analytics suite** with **Recharts** to visualize long-term habit trends, optimizing rendering performance for extensive historical datasets.

v2go (High-Performance Network Utility) | *Go (Golang), Concurrency, CLI*

- Developed a **multi-threaded CLI tool** in **Go**, achieving a **99.7% speed improvement** over Python alternatives.
- Optimized algorithms to process **20,000+ configurations in 11 seconds**, utilizing **Goroutines** for massive parallelism.
- Implemented **automated deduplication**, validity checking, and subscription link generation to streamline network management.

FindIT (Indoor Navigation System) | *Flutter, Python, MongoDB, OpenStreetMap*

- Built a **cross-platform Flutter app** to solve GPS dead zones in large campuses, integrating **OpenStreetMap APIs**.
- Architected a unified **Python** and **MongoDB backend** to efficiently store nodes and calculate **pathfinding routes** for indoor navigation.

CERTIFICATIONS

- **AI Agents Fundamentals** – Hugging Face (Nov 2025)
- **Linux Server Professional (LPIC-1)** – Fanavaran Anisa (Feb 2024)
- **Python Programming** – Fanavaran Anisa (Mar 2023)