Mohammad Shaheer Saeed

647-762-8200 | msaeed.shaheer@gmail.com | linkedin.com/in/mss06 | github.com/mss06s

I build developer tools. Most recently GitSentinel, an AI code reviewer that tests its own fixes before you see them.

Education

University of Guelph Guelph, ON
Bachelor of Computer Science (Honours), Artificial Intelligence Specialization *Sept 2024 – Apr 2028*

Experience

Backend Infrastructure Intern Mar 2026 – Jun 2026
Metry AI *Remote*

- Wrote PostgreSQL migrations adding status enums, foreign-key constraints, and typed client functions to a production Supabase schema
- Tested every REST endpoint of a new service across two authentication paths, filing reproducible bug reports for each defect found
- Documented endpoint behaviour, edge cases, and known limitations for a feature spanning three repositories, used by team leads in review

Projects

GitSentinel | *Python, Claude API, Tree-sitter, SQLite, Pydantic, pytest* GitHub | 2026

- Built a CLI that reviews git diffs with Claude, using Tree-sitter to find the function around each change and local RAG to pull related code from the rest of the repo
- Wrote a unified-diff parser from scratch that tracks file and hunk boundaries, captures real hunk content, and detects added, deleted, and renamed files
- Indexed code by chunking along Tree-sitter symbol boundaries, embedding with Voyage AI, and storing vectors in SQLite instead of a hosted vector database
- Enforced structured findings with Anthropic tool use and Pydantic validation; verified each suggested fix by applying it to a sandboxed repo copy and running the test suite

KeyWatch | *Python, PySide6, WMI, winreg* GitHub | 2025

- Built a Windows desktop scanner that checks four common autostart locations (Registry Run keys, Services, Startup folders, Scheduled Tasks) and flags executables launching from AppData
- Moved scanning onto worker threads so the interface stays responsive during a full sweep

Maple Price | *React, Node.js, Express, SQLite, Tesseract.js* | Hack Canada GitHub | 2025

- Built a crowdsourced grocery price tracker as a team, reading prices off shelf-tag photos with in-browser OCR so no images are processed on the server

ASL Learning Hub | *JavaScript, MediaPipe* | TechNation Hackathon Demo | GitHub | 2024

- Built a browser ASL trainer with a partner in 15 hours that tracks hand landmarks with MediaPipe and scores A–Z and 1–10 signs with live corrective feedback

Skills

Languages: Python, JavaScript, TypeScript, Java, C, SQL
Frameworks: Node.js, Express, Flask, React, REST APIs
AI / LLM: Anthropic API, tool use, structured outputs, RAG, embeddings, Pydantic
Databases: PostgreSQL, SQLite, Supabase, vector search
Tools: Git, Linux, pytest, Postman, Tree-sitter, MediaPipe