

# RUTTANSH BHATELIA

Toronto, Ontario | Authorized to work in Canada | Open to Relocate  
Applied AI Engineer | Agentic Workflows | AI Systems Design | Evaluation

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## Summary

Applied AI engineer who takes agentic systems from customer requirements to production. I build custom harnesses, evaluation pipelines, and infrastructure to make them reliable and observable.

## Experience

### AI Engineer

April 2025 – Present

*CredShields*

US, Remote

- Own the agentic systems behind **CredShields One**, designing production AI-assisted penetration-testing harnesses.
- Translate customer requirements into shipped AI features by designing modular agent systems for independent development and testing.
- Improve **SolidityScan**'s LLM-assisted findings with **retrieval grounding and second-pass validation** before analyst review.
- Built OpenHands-based workflows using the **Agent Communication Protocol (ACP)** for Slack debugging, issue creation, and pull requests; built a priority-aware CI agent with restricted production permissions.

### Machine Learning Researcher

January 2025 – April 2025

*Sheridan Centre for Applied AI · TELUS*

Oakville, Ontario

- Trained **VAE and DDPM models** to synthesize RSSI fingerprints and integrated the data into regression-based localization pipelines.
- Compared nearest-neighbor and line-shifting baselines on a 2D apartment setup; co-authored an **IEEE MSWiM 2025 paper** on synthetic RSSI augmentation and hybrid localization ([DOI](#)).

### Full Stack Developer

September 2024 – December 2024

*Sheridan Centre for Applied AI · McMaster University*

Oakville, Ontario

- Ported a research web application to a cross-platform **Flutter** client for iOS and Android.
- Built REST APIs, Strapi CMS integration, and a SQL schema with Git-based delivery; implemented authentication and data-handling controls for sensitive health-data requirements.

### Machine Learning Researcher

May 2024 – August 2024

*Sheridan Centre for Applied AI · Osteoporosis Canada (Co-op)*

Oakville, Ontario

- Built fracture-risk prediction pipelines spanning data cleaning, feature extraction, model training, and evaluation.
- Designed a **soft-voting ensemble** of random forest, XGBoost, and logistic regression; evaluated it with precision-recall, ROC-AUC, and calibration for a false-negative-sensitive clinical use case.

## Projects

**agentlog** | [github.com/rutts29/agentlog](https://github.com/rutts29/agentlog) | Python, TypeScript, SQLite, MCP

- Built a **local-first observability and evaluation system** that normalizes artifacts from six AI coding harnesses into a provenance-aware SQLite ledger.
- Served session data through a CLI, local dashboard, and read-only MCP tools, and surfaced evidence-backed proposals for improving AGENTS.md and skill files.

**driftctl** | [github.com/rutts29/driftctl](https://github.com/rutts29/driftctl) | Rust, Codex hooks

- Built an opt-in, **drift-resistant continuity layer** for long-running Codex sessions that stores accepted goals and later steering outside the transcript, then restores current intent after prompts, interruptions, and compactions.
- Combined source-linked model proposals with deterministic validation and human review for ambiguous changes; published reproducible evaluations.

## Education

### Sheridan College

January 2022 – December 2025

*Honours Bachelor of Science in Computer Science*

Oakville, Ontario

- Specialization in Data Analytics and Machine Learning. Undergraduate thesis on smart-contract vulnerability detection using CodeBERT and graph-based models, with template-based fixes for selected vulnerability classes.

## Technical Skills

**Languages:** Python, TypeScript, Rust

**Applied AI:** Harness Engineering, Evaluation, Observability, MCP, RAG, PyTorch, Hugging Face, LangChain

**Systems and Delivery:** FastAPI, SQLite, PostgreSQL, Docker, AWS, Linux, Git