

# GONZALO PATINO

AI Software Engineer

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## PROFESSIONAL SUMMARY

AI Software Engineer delivering end-to-end software systems and integrating AI capabilities into products through clean APIs, data pipelines, and measurable evaluation. Background in telemetry-heavy environments and reliability-driven engineering, with experience building internal platforms that speed up decision-making and incident response. Seeking AI Software Engineer roles focused on scalable, maintainable AI systems.

## WORK EXPERIENCE

### Independent AI Software Engineer

October 2025 – Present

ThinkSense Labs, Vancouver, BC, Canada

Independent consulting delivering end-to-end software systems for clients, from requirements through implementation and handoff. Engagements include AI feature integration, data workflows, and system design across services, APIs, and user-facing components.

- Build end-to-end prototypes that integrate data ingestion, retrieval, and application-layer UX, emphasizing maintainable architecture and measurable evaluation.
- Develop and document experiments across IoT and AI application patterns (device-to-cloud telemetry, dashboards, retrieval-augmented assistants).

### Technical Support Engineer (Software and Data Analytics)

December 2024 – Present

Schneider Electric, Richmond, BC, Canada

Global energy management company supporting residential hybrid inverter and EV charging systems. Worked across device-to-cloud telemetry and internal software tooling used to accelerate troubleshooting and reliability improvements.

- Designed, built, and maintained internal web applications to ingest, query, and visualize residential inverter telemetry (Django, React-Vite), improving speed and consistency of investigations.
- Implemented API-backed workflows and data views to centralize EV charging telemetry and support near real-time analysis for systems engineering and support teams.
- Developed telemetry analysis and automation utilities to reduce repetitive investigation steps and shorten time-to-diagnosis.

### Applications Engineer, Digital Solutions (Telemetry and Internal Software Tools)

March 2023 –

December 2024

Cadex Electronics, Richmond, BC, Canada

Battery technology company building diagnostic and management solutions for battery fleets and service operations. Built internal web tooling to unify data visibility and improve troubleshooting and validation workflows.

- Built an internal telemetry web app (Flask, React) to unify signals across legacy systems and improve monitoring and troubleshooting workflows for the technical support department.
- Developed automation that reduced manual validation time and improved repeatability of test and data collection workflows.
- Documented system behavior and supported cross-functional process improvements tied to reliability and audit readiness.

## R&D Test Engineering Technician (Data)

Jan 2020 – Jan 2023

Synopsys, Toronto, ON, Canada

Semiconductor design and IP company, supporting R&D teams working on high-speed interfaces (SerDes). Built automation for data acquisition and monitoring and supported system-level debug for lab validation workflows.

- Developed data acquisition and monitoring automation (Python, MATLAB) to reduce manual measurement and accelerate debugging cycles.
- Performed system-level debugging with lab instrumentation and collaborated with engineers to isolate firmware and hardware integration issues.
- Supported PCB bring-up and validation through structured testing, clear reporting, and reproducible measurement procedures.

## EDUCATION

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Bachelor of Science in Computer Science - Software Engineering | Southern New Hampshire University 2025  
Associate's degree in Electronics Engineering Technology | Centennial College 2016

## SKILLS

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Technical	Python, LLM integration and RAG, APIs (REST, FastAPI), Data pipelines (ingestion, ETL), Vector search and embeddings, Databases (PostgreSQL, SQL), Full Stack (Django + React, MEAN), Docker, Git, Testing (Pytest), Cloud basics (AWS, Azure, GCP), Machine Learning, Natural Language Processing
Professional	Problem solving, Debugging and RCA, Technical communication, Collaboration, Prioritization, Documentation

## CERTIFICATIONS

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IBM Full Stack Development Certificate

IBM Python for Data Science, AI & Development

Lean Six Sigma Black Belt for IT

## AWARDS

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B.S. Computer Science, Summa Cum Laude (GPA: 3.92/4.00)

## OTHER INFORMATION

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Portfolio: <https://gonzalopatino.github.io/gpatino/>