Gonzalo Patino

Software Engineer

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SUMMARY

Software Engineer building end-to-end software systems from design through deployment. Strong in systems design, API development, and data workflows, with a focus on clean architecture and maintainable code. I integrate AI capabilities when they add clear value inside product workflows.

WORK EXPERIENCE

Schneider Electric   **December 2024 – Present**
Technical Support Engineer (Software and Data Analytics)   *Richmond, BC, Canada*

- Built and maintained internal telemetry web applications to ingest, normalize, query, and visualize EV charging and residential energy data (Django, React).
- Implemented API-driven data pipelines supporting real-time and historical analysis, including filtering, fleet-level views, and audit-friendly logging.
- Automated debugging workflows in Python (log parsing, normalization, anomaly triage), reducing time-to-diagnosis and improving investigation consistency.
- Partnered with firmware, systems, and cloud teams to reproduce defects and validate fixes using structured root-cause analysis.

Cadex Electronics   **March 2023 – December 2024**
Applications Engineer, Digital Solutions (Software, Telemetry, Reliability)   *Richmond, BC, Canada*

- Delivered internal telemetry and diagnostics tooling (Flask, React) to consolidate service data across legacy and modern systems, improving monitoring and troubleshooting workflows.
- Automated test and data-collection pipelines in Python, improving validation throughput 75% and increasing workflow repeatability
- Created technical documentation for protocols and test procedures to improve consistency and knowledge transfer.

EDUCATION

Southern New Hampshire University   **December 2025**
Bachelor of Science in Computer Science - Software Engineering, Summa Cum Laude (GPA 3.92/4.00)
Manchester, New Hampshire, United States

Centennial College   **June 2016**
Associate's degree in Electronics Engineering Technology
Toronto, Ontario, Canada

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, TypeScript, SQL, C, C++
- **Backend & APIs:** REST APIs, API design, authentication
- **Frontend:** React, Angular, HTML, CSS
- **Data & Systems:** Relational data modeling, data ingestion pipelines, time-series normalization.
- **Dev & Delivery:** Git/GitHub, CI/CD concepts, Linux, Docker (containers), unit testing, debugging, Kubernetes fundamentals, Postman
- **Project Management:** Agile Scrum, SDLC
- **Engineering Practices:** Clean architecture, secure coding fundamentals, code review, cross-functional collaboration

PROJECTS

- **End-to-End IoT Thermostat Platform – Southern New Hampshire University:** Designed a cloud-connected telemetry platform using Django REST APIs and React dashboards to ingest, visualize, and monitor real-time device data. Integrated an ESP32-based edge device as a data producer, implementing reliable state handling to simulate production IoT workflows.
https://gonzalopatino.github.io/IoT_thermoStat_ecosystem/

- **Device Health and Telemetry Internal Dashboard (EV Charging + Residential Energy) for Technical Support Teams – Schneider Electric:** Built a telemetry dashboard for EV chargers and residential energy systems using React frontend and Django (MVT) backend. Implemented secure device-to cloud ingestion APIs, normalized time-series telemetry into a relational data model, and exposed query endpoints for trend analysis, filtering, and fleet-level views. Delivered real-time and historical visualizations, with role-based access control, audit-friendly logging, and production-oriented deployment patterns.

CERTIFICATIONS

- IBM Docker containers, CI/CD concepts, Kubernetes fundamentals
- IBM- Python for Data Science, AI & Development
- IBM- Developing Back-end Apps with Node.js and Express
- IBM- Django Application Development
- IBM- Getting Started with Git and GitHub
- IBM- Django Application Development with SQL
- IBM- Developing Front-End Apps with React
- Lean Six Sigma Black Belt

AWARDS

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

OTHER

- Bilingual in English and Spanish
- Member of the National Society of Leadership and Success