

Martin Merino

Sydney, Australia

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

Professional Profile

Software developer focused on building tools and systems to solve real operational problems, with hands-on experience developing web solutions related to inventory management, process automation, and data reliability within business environments. I combine technical knowledge with experience in logistics, operations, and business coordination, bringing a practical perspective to the development of technology solutions. Oriented toward the development of technology products, internal tools, and AI-driven applications within dynamic product-oriented environments.

Technical Skills

Languages & Frameworks

- Python
- JavaScript / TypeScript
- React
- Node.js
- HTML / CSS

Databases

- MySQL
- SQLite

Cloud & Tools

- AWS (EC2, S3, IAM)
- Git / GitHub
- GitHub Copilot
- REST APIs

Areas of interest

- AI Integration
- Process Automation
- Full Stack Development
- Product Development

Projects

Warehouse Inventory Management System (2025)

- Development of a full-stack inventory and operations management platform for a pharmaceutical cold-chain operational environment in Sydney, Australia, using Node.js, Express, React, TypeScript, and SQLite.
- Implementation of a modular architecture separating frontend, backend, and shared logic, including REST API integration, authentication, and inventory traceability.

- Development of functionalities related to historical records, automated alerts, stock monitoring, and operational data processing.

Soil Fertility Prediction (2025)

- Implement a machine learning model using Python and Scikit-learn to predict soil fertility based on chemical properties.
- Applied data preprocessing, feature analysis, cross-validation, and hyperparameter tuning using Random Forest and GridSearchCV.
- Achieved approximately 91% model accuracy while evaluating feature importance and model stability across validation folds.

Time Series Forecasting(2025)

- Development of forecasting experiments using Python, Pandas, and Matplotlib to analyze and predict time series behavior.
- Implemented and compared forecasting approaches including Naive Forecasting and Moving Average methods using MAE evaluation.
- Performed trend visualization and time series analysis to support understanding of forecasting behavior and model performance.

Responsive Website (2025)

- Design and development of a responsive website using HTML, CSS, and JavaScript.
- Implementation of interfaces focused on accessibility, clean design, and user experience across multiple devices.

Professional Experience

Operations Systems Developer

Inservio Home | Sydney, Australia | Dec 2024 – Present

- Identify opportunities for operational process improvement and lead the design and development of an internal inventory and order tracking platform to reduce dependency on manual Excel-based workflows.
- Design and iteratively implement a web-based solution using Node.js, React, TypeScript, and SQLite focused on inventory traceability, historical records, and operational visibility.
- Define the logical structure and core workflows of the platform, considering scalability, maintainability, and usability within a real operational environment.
- Participate directly in daily operations within a pharmaceutical cold-chain environment, gaining practical understanding of operational workflows, logistics processes, process reliability, and operational requirements..
- Perform testing, debugging, and continuous improvements to optimize reliability, usability, and reduction of manual errors.

Technical Site Inspector (ITO) & Financial Risk Analyst

Alma Investment & Tasa Tasaciones | Santiago, Chile | Aug 2022 – May 2024

- Supervised bank-financed construction projects, ensuring alignment between physical project progress and financial disbursements.
- Conducted financial analysis and risk controls through document validation, credit background review, and project progress monitoring.

- Prepared structured technical and financial reports to support decisions related to risk exposure and contractual compliance.
- Worked alongside accounting teams, clients, and technical stakeholders to identify inconsistencies and improve validation and monitoring processes.

Executive Producer & Studio Manager

Cascada Sonido Music Studios | Santiago, Chile | May 2020 – Jul 2022

- Coordinated audio production projects from end to end, including planning, budgeting, and client communication.
- Supervised operations and coordination of multiple simultaneous projects within a creative and service-oriented environment.

Logistics & Purchasing Coordinator

Pragmanet | Santiago, Chile | Jul 2016 – Dec 2018

- Coordinated procurement, logistics, and supplier communication processes for residential construction projects.
- Acted as liaison between clients, field teams, and management to support project deadlines and operational follow-up.

Education

Bachelor of Information Technology (Information Systems)

Sydney Metropolitan Institute of Technology | Sydney, Australia

2024 – 2026

Business Diploma

Northwest College | Sydney, Australia

2019 – 2020

Certifications

Associate Python Developer

DataCamp | Abril 2026

Languages

- Spanish - Native
- English - Fluent