

# Lucas Picchi - resume - en

## Lucas Picchi

**Fullstack Engineer | Team Lead** Lanús, Buenos Aires (UTC-3)

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## About me

Fullstack Developer and Team Lead specializing in Industrial IoT and telemetry. Connecting embedded systems and infrastructure. Currently designing high-frequency data ingestion pipelines, backend systems, automating workflows, and leading a technical team to deliver efficient solutions. Tech enthusiast and EE student, I spend most of my day thinking about computers.

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## Technical Skills

- **Backend:** Typescript, Python, RESTful APIs, WebSockets, C (Embedded).
  - **Frontend:** React, TypeScript, Next.js, Tailwind CSS, Three.js.
  - **AI:** Context Window Management, LLM-orchestrated workflows, Spec declaration/Spec kits.
  - **Data & Infrastructure:** PostgreSQL, Redis, MongoDB, Docker, Docker Compose, Nginx, Linux Server Administration (On-Premise/Cloud).
  - **DevOps & Tools:** GitLab CI/CD, Jenkins, Git, Bash Scripting, Grafana.
  - **Coworking:** Mentorship, Agile Workflows, Stakeholder Management.
  - **Languages:** Spanish (Native), English (C1 Advanced - Cambridge Certified).
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## Professional Experience

DMD COMPRESORES SAIC | *Lead Developer* | Feb 2025 – Present

- Developing an end-to-end real-time telemetry platform for industrial compressor monitoring and data visualization using Node.JS, Typescript, React and TailwindCSS. Worked as team leader in this project.
- Optimized data pipelines using Redis and PostgreSQL to handle massive historical datasets and high-frequency sensor ingestion without performance degradation.
- Managed Infrastructure, deploying containerized applications and automated CI/CD pipelines via GitLab.

DMD COMPRESORES SAIC | *Fullstack / Embedded* | Jan 2024 – feb 2025

- Developed an automated testing system for production lines connecting industrial equipment and PLCs to a modern web application using ModBus communication with Node.JS.
- Implemented real-time dashboards featuring complex data visualizations for industrial metrics using React.
- Developed embedded acquisition systems to interface hardware sensors with backend services using C.

#### DMD COMPRESORES | *Internship* | 2023

- Maintained low scale web applications using Node.js and React.
  - Optimized database performance through indexing and query refactoring, significantly reducing API response times.
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## Education

Electronic Engineering (In Progress) *Universidad Tecnológica Nacional (UTN)* | 2024 – 2029  
(Expected)

Technical High School in Electronics *E.E.S.T. N°9 Lanús, Buenos Aires* | 2017 – 2023