

Pedro Curti

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EXPERIENCE

Kaizer

Software Developer

Buenos Aires, Argentina

Nov 2025 – Jul 2026

Developed and shipped production backend features for a fitness platform serving 10,000+ users, including batch REST endpoints for exercise operations and soft-deletion flows with dynamic overrides. Architected a transactional abstraction using post-commit hooks to safely decouple side effects from core database writes, ensuring data consistency. Designed an event-driven architecture for cross-cutting concerns such as transactional emails and notifications, and delivered a hexagonal mailing module with localized React Email templates (EN/ES/PT).

Skills used: TypeScript, Node.js, Express, Zod, PostgreSQL, Drizzle ORM, React, TanStack Query, Zustand, React Email, Resend

PROJECTS

Rent Price Estimator – Pricing Model (ML)

Python, XGBoost, scikit-learn, pandas

- Trained an XGBoost regression model on 48,800 listings across 101 cities to estimate monthly USD reference prices for apartment rentals, achieving a test MAE of ~\$163 with a calibrated prediction interval at ~90% coverage
- Ensured robustness through geographic feature engineering (price KNN, city median aggregates, distance to center) fit on training data only to avoid *data leakage*, hyperparameter tuning via *GridSearch*, and model deployment behind a minimal HTTP front-end with out-of-scope abstention; the engineered price-KNN feature ranked #1 by permutation importance, raising MAE by ~\$266 when removed (~1.8× the next feature)

MapReduce Pipeline with Hazelcast

Java, Hazelcast, Python

- Developed distributed MapReduce filters in a cluster environment with multiple query strategies and concatenated pipelines
- Benchmarked and compared strategies, including data upload optimization prior to processing

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, C/C++, SQL

Frontend: React, TanStack Query, Zustand, Shadcn UI, Bootstrap

Backend: Node.js, Express.js, Zod, Spring

Databases & ORM: PostgreSQL, MySQL, Drizzle ORM, Hibernate, MongoDB

Tools & Practices: Git, GitHub, Postman, OpenAPI/Swagger, CI/CD, Docker

Agile Methodologies: Scrum

EDUCATION

Instituto Tecnológico de Buenos Aires (ITBA)

B.Sc. in Computer Engineering

Buenos Aires, Argentina

2019 – Present

Escuela Técnica ORT

High School Diploma – Computer Science Specialization

Buenos Aires, Argentina

2014 – 2018

Cambridge Assessment English

First Certificate in English (FCE) – Level B2

SUMMARY

Software Engineering undergraduate at ITBA (thesis pending) with full-stack experience developing production backend features, including batch REST endpoints, event-driven architectures, and hexagonal module design. Skilled in React, TypeScript, Node.js, and PostgreSQL, with a focus on clean architecture and data consistency. Currently open to new opportunities.