

Yutaro Watanabe

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Work Status: EU Work Permit – Italy (Permesso di Soggiorno)

PROFESSIONAL EXPERIENCE

Application Engineer

Milan, Italy
Jun. 2026 - Present

Mollie

- Application engineer at Mollie, an Amsterdam-based payments fintech whose single-API platform processes online and in-person payments for businesses across 30+ EEA countries.

Data Scientist & Software Engineer

Milan, Italy
Oct. 2020 - May 2026

Quick Algorithm Analytics S.r.l

- As an early-stage data scientist and software engineer, played a key role in the 'zero-to-one' product development from its alpha stage and continued to drive the 'one-to-million' scaling phase for clients like Angelini Pharma, Ducati, Brembo, and Pfizer.
- Engineered and deployed the company's signature anomaly detection algorithm, enabling predictive maintenance that has saved clients millions by preventing machinery failures.
- Designed and built scalable MLOps pipelines for critical SaaS features, including ML-powered machinery diagnostics and an innovative 'Talk-with-Data' LLM-based analytics tool.

Research Assistant

Milan, Italy
Jul. 2020 - Dec. 2020

Bocconi University & London Business School

- Participated as an assistant for a joint research for Moreno & Crilly.
- Research covered topics on managerial and financial decision-making from temporal perspectives.
- Worked on data collection, EDA, and algorithmic analysis on text-based data related to various economic and financial news vs. financial activities such as short-selling, etc.

EDUCATION

Georgia Institute of Technology

Atlanta, GA, USA
Sept 2021 – Aug 2023

Master's in Analytics – Computational Data Analytics

- Completed remotely whilst working full-time, partially due to COVID-19, partially due to financial motives.
- Relevant coursework: Computational Data Analytics, Analytics Modeling, Deep Learning, Data & Visual Analytics, Simulation, etc.
- Thesis & Practicum: Statistical & empirical analysis to reverse-engineer micro-edge models running on a closed-source industrial-grade vibration sensor.

Bocconi University

Milan, Italy
Sept 2018 – Jul 2021

Bachelor's in Economics & Computer Science

- Relevant coursework: Computer Science, Machine Learning, Statistics, Econometrics, Multivariate Calculus, Linear Algebra, etc.
- Thesis: A comprehensive analysis of missing imputation techniques and its performance on ML models. Created and delivered a benchmarking suite alongside diagnostic tools to judge the best-suited imputation method for a specific dataset & task.

SKILLS

- Languages:** Japanese Native, English C2, Italian B2
- Programming Languages:** Python, SQL, JavaScript/TypeScript, Rust, R
- Machine Learning Frameworks:** Scikit-Learn, Tensorflow, PyTorch, PySpark
- Web Frameworks:** FastAPI, Flask, Next.js
- BI Tools & Charting:** Apache Superset, Streamlit, Apache Echarts, D3.js, Matplotlib, seaborn
- Tabular Data & ML Pipeline tools:** Polars, Pandas, Numpy, Scipy, duckDB, Airflow, Celery, Hadoop, Kafka, OpenCV
- Databases:** PostgreSQL, Google BigQuery, TimeScaleDB, SQLite3
- Miscellaneous:** Git, Docker, Kubernetes, Linux, Terraform

PROJECTS & OTHERS

- Voluta:** a VS Code extension for editing and resending cURL commands in place. Inspired by Firefox's Edit and Resend feature.
- cli_yutaro:** a personal site that boots a full Alpine Linux instance in the browser via WebAssembly (v86). ([code](#))
- cli-calendar:** a Rust `ca` clone with extra features like weekend and holiday highlighting.
- AI Shopping List & Receipt Scanner:** leverages a multimodal (visual) LLM tied with embedding vectorization to scan and match items on receipts to a shopping list. Personal project.
- Hotel Reservation Prediction Model:** a novel, layered approach leveraging reservation time and check-in day to model the speed and acceleration of a hotel reservation, improving preceding models' performance by a non-trivial margin. Built freelance for a hotel consulting SaaS company.
- Other one-off projects:
 - Excel Assistant:** LLM-leveraged Excel editor for financial analysts, built with FastAPI (async SSE) and Next.js.
 - Formula 1 Stint Optimizer:** live-streaming stint optimizer using Kafka, Grafana, and FastAPI.
- Active member of [Python Milano](#) & [PyData Milano](#) since 2023, frequently participating in biweekly meetups & conferences.