

Matteo Bocchia

Software Engineer | AI & Machine Learning

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PROFILE

Software engineer building Python backends and data platforms, with professional experience in anomaly detection and Chat-to-SQL. M.Sc. focused on AI and software development. Founder of Koomy and engineer of its production backend.

EXPERIENCE

Zeratech S.r.l. | Backend Developer | 2024 - present

- Design and develop a distributed, multi-tenant data and AI platform running on Kubernetes for industrial operations, including steel production.
- Build HTTP/gRPC services, Kafka workflows and asynchronous workers for second-resolution plant data; deliver Helm environments and troubleshoot routing, service discovery and storage.

Koomy | Founder & Backend Engineer | 2023 - present

- Founded a digital-comics platform with 12,000+ users; designed and implemented its production backend.
- Built PostgreSQL/JSONB search and ranking, behaviour-based recommendations, and content-access protection using encrypted pages, short-lived tokens and authorization controls.

Co-brains S.r.l. | Backend Developer | 2019 - 2024

- Developed backend and data-processing software for industrial energy monitoring, maintaining second-resolution telemetry pipelines with MQTT, MongoDB and PostgreSQL.

APPLIED AI & ML RESEARCH

Industrial AI | Anonymised professional engagements

- Developed anomaly-detection systems and Chat-to-SQL interfaces for industrial use.
- Collaborated with engineers from industry and academia. Client, partner and product identities are withheld under NDA; this summary covers separate engagements.

Geographic sales-potential modelling | M.Sc. thesis

- Combined company sales and daily weather data (2017-2023) with municipal socioeconomic data (2017-2022); implemented cleaning, municipality matching and custom sequence preparation.
- Developed a hybrid LSTM-MLP model in TensorFlow/Keras, combining temporal and static inputs. Kept each municipality entirely in training or test to evaluate geographic generalisation.
- Documented data imbalance and limits of geographic generalisation; proposed field validation in previously unserved municipalities.

EDUCATION

M.Sc. Computer Science - AI & Software Development
Università degli Studi di Milano-Bicocca | April 2024

TECHNICAL SKILLS

AI / ML: TensorFlow/Keras, scikit-learn, NumPy, Pandas, regression, sequence modelling

Backend: Python, FastAPI, Flask, Django, REST, gRPC, asynchronous services

Data: PostgreSQL, JSONB, MongoDB, Kafka, MQTT

Platform: Docker, Kubernetes, Helm, AWS, CI/CD