Bruno Guzzo

Cloud Engineer — AI & ML Specialist

Work Experience

AI Specialist (Mid-Senior Consultant)

January 2025 - Present

Go Reply, Turin

- Coordinated a multi-company effort to gather customer requirements for a research-oriented healthcare platform, enabling centralized and rapid clinical or genomic data retrieval. Lead project key phases form defining a complete functional analysis document, design a cloud-native architecture and implementation throught sprint planning.
- Directed a cross-functional team of developers in delivering a B2C cloud-native mobile application enabling home-automation, after-sales support, digital documentation access via Gen-AI RAG chat-bot and seamless multi-cloud CRM integration. Guided the adoption of a distributed serverless micro-services architecture coordinated using Google Pub/Sub to enforce fault isolation an scalability.
- Designed and implemented a scalable legal treaties search engine and RAG solution using Vertex AI and BigQuery with a highly efficient and concurrent data ingestion pipeline, enabling insight generation and optimization of customer workflow. Successfully improved data processing speed by 94% after adopting a serverless cloud-native master/worker architecture relying on Cloud Task and Cloud Run for concurrent workloads distribution.
- · Advised clients on AI and agent-based system integration, facilitating the adoption of Google Cloud enterprise ecosystem via custom-tailored RFP solutions to improve critical business processes. Increased client adoption rate of Vertex AI by 30%.
- Managed strategic client engagement within the global development industry, coordinating multi-project cloud advisory and resource allocation that mobilized 20% of the BU workforce and drove 30% of unit profitability.
- Mentored junior engineers, promoted agile best practices through knowledge-sharing events, and coordinated sprint reviews and retrospectives to accelerate team performance and continuous improvement. Successfully decreased code-review time by 60%.

Cloud Engineer (Consultant)

June 2022 – December 2024

Go Reply, Turin

- Contributed to the development of a digital platform for the agriculture and food sector, enhancing data collection and analytics capabilities to support evidence-based decisionmaking on sustainable farming and antimicrobial resistance. Lead the platform migration to Google Cloud relying on IAC best-practices as full Terraform foundation and GCP Fabric modules to ensure custom service configuration and resources tracking. Successfully reduced infrastructural fixed-costs by 30%.
- Designed efficient multi-stage Git-Hub and Git-Lab CI/CD pipeline for quickest application deployment to production using Cloud Build for Docker image building and a finegrained configured Cloud Run instance (or Firebase hosting) for computing. Bug-free releases are accomplished leveraging a comprehensive test-cases suite targeting both back-end, using Junit or PyTest, and front-end, using Selenium to mimic end-user actions.
- Participated in the implementation and deployment of a digital learning solution in the education industry, delivering scalable and cloud-based features aligned with client innovation goals. Data security and GDPR compliance are guaranteed by the adoption of rigid IAM policy and region locks through the definition of project IAC, using Terraform.
- Modernized a large-scale telecommunications cybersecurity platform, improving scalability and enhancing user experience through architectural refactoring, cloud integration, and automation to strengthen service reliability across mobile and fixed networks.

Personal & Academic Projects

MSc Thesis: Anomaly Detection with Deep Autoencoders

• Developed a novel Autoencoder (AE-SAD) for semi-supervised anomaly detection, significantly improving accuracy (AUC) and reducing training time by addressing class imbalance.

Transformer-GNN for Link Prediction

• Engineered a scalable data pipeline for large-scale graph dataset generation from Wikipedia; trained and assessed Graph Attention Network (GAT) models for link prediction.

LLaMA 3 Fine-Tuning and Evaluation

• Fine-tuned LLaMA 3 on Italian Wikipedia, improving language modeling and developing a RAG-based chatbot for Italian literature.

Education

MSc, AI & ML Engineering UNICAL, Rende (CS), Italy

Oct 2018 - June 2022

Oct 2022 - July 2025



13 Jan 2000

+393398305458

brunoguzzo18@gmail.com github.com/bGuzzo

linkedin.com/in/guzzobruno

Soft Skills

- Leadership & Mentoring
- Team & Project Management
- Consulting & Client Engagement
- Agile Methodologies (Scrum)

Technical Skills

Google Cloud (Advanced)

- Compute: Cloud Run, App Engine, Cloud Functions, Compute Engine
- AI/ML: Gemini, Vertex AI, Agent Builder, ADK, BigQuery ML
- Data: BigQuery, Cloud SQL, Firestore, and Firebase Realtime Database, Cloud Storage
- Infra: VPC, Load Balancer, IAM, Cloud Armor, Cloud DNS, Cloud CDN, Cloud Task, Cloud Pub/Sub

AI & Machine Learning (Academic)

- Frameworks: PyTorch, Langchain, Hugging Face Transformers, PEFT, Unsloth
- Libraries: Pandas, NumPy, Scikit-learn, SciPy, NLTK, Sentence-Transformers, FAISS, BitsAndBytes
- Concepts: LLM, RAG, NLP, Fine-Tuning (QLoRA), Vector Databases, Embeddings, Anomaly Detection, Time-Series Analysis, Reinforcement Learning, GNNs, CNNs, Autoencoder, Transformer, GPT

DevOps (Advanced)

- IaC: Terraform, Fabric
- CI/CD: Cloud Build, GitLab CI, GitHub Actions, Artifact Registry
- Containers: Docker
- Others: Linux, Git, A/B Testing

Software Development (Advanced)

- Languages: Python, Java, C, JavaScript, Typescript, Dart, SQL
- Frameworks: Spring Boot, Hibernate, JPA, Flask, Django, SQLAlchemy Angular, React,
- Testing: Selenium, Junit, PyTest
- Databases: PostgreSQL, MySQL, NoSQL
- Others: Agile, Scrum, Jira, Sprint Planning, Cloud-native

Languages

• Italian: Native

• English: B2, Cambridge certified

BSc, Computer Engineering UNICAL, Rende (CS), Italy