Fritz Stelluto, Berlin

Senior Machine Learning Engineer

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Hello, I'm Fritz, an experienced engineer based in Berlin. Currently, I am part of the Data Science department at Wayfair, focusing on service development and MI Ops. Throughout my career, I have excelled as both a full-stack developer and a technical manager.

Work History

Wayfair / Senior Machine Learning Engineer, Scam Prevention Team
Jan 2022 - Present, Berlin

- Implemented and maintained Python-based batch ingestion pipelines using Kubeflow. Integrated data from BigQuery and neo4j into Vertex AI Feature Store, reducing scam risk for Wayfair as a percentage of revenue from 1.4% to 1.2%.
- Delivered access to model outputs for business stakeholders via robust REST endpoints (FastAPI on Kubernetes) and distributed pub-sub systems (Kafka, Google PubSub, Scribe), averting an estimated $47M in annual customer scams.
- Oversaw pipelines for training and deploying classification models, leveraging Buildkite on GCP (Google Cloud Platform), greatly reducing turnaround time.
- Managed Arize and Datadog monitoring pipelines, transitioning from reactive responses to failures and model degradation to proactive identification and resolution of issues before impacting business stakeholders.
- Partnered with business stakeholders to refine requirements and monitor project progress, ensuring the successful achievement of KPIs.
- Guided data scientists in software engineering practices and the team in agile methodologies, empowering them to independently deploy their code.
- Negotiated SLOs (Service Level Objectives) with other engineering teams.
- Played a pivotal role in a cost reduction initiative that slashed GCP costs by 50% in the Data Science department.

Advertima / Engineering Manager, Smart Signage Team
Jan 2021 - Dec 2021, Berlin

- Oversaw the Smart Signage team, responsible for maintaining and enhancing Advertima's flagship in-store advertising product, consisting of over 1200 distributed edge devices and sensors, as well as managing the AWS infrastructure and services, securing an annual income of approximately CHF1M.
- Played a key role in the development of the managing console for the devices (Django), the service responsible for routing the output of computer vision models to the ETL pipeline (Node.js/NestJS), and Apache Spark jobs providing reports to clients.
- Championed cost reduction initiatives, keeping our AWS costs under tight control.

Advertima / Senior Software Engineer, Cashier-less Store Demo
Apr 2020 - Dec 2020, Berlin

- Introduced Agile practices to the team, ensuring successful delivery of the Cashier-less Store Demo which secured CHF15M funding.
- Led the development of critical components for the Cashier-less Store Demo, including systems for controlling store gates (Node.js), interfacing with payment systems (Flask), managing the catalog (Django), and implementing a reinforcement learning system for operator label assignments (Flask backend + Svelte frontend).

Tourlane / Senior Software Engineer, Nov 2019 - Feb 2020, Berlin
Worked on developing multilingual static sites for this travel operator using Gatsby and the JAM stack. Unfortunately, the tenure was cut short due to the impact of COVID.

Flaconi / Technical Lead
Jun 2018 - Jun 2019, Berlin

- Facilitated the transition from a PHP monolith to a suite of microservices (primarily Node.js) orchestrated by a GraphQL gateway, enhancing system resilience and virtually eliminating downtime.
- Managed data in PostgreSQL and Redis stores, oversaw UI development (React), and delved into ML Engineering by creating, maintaining, and deploying a recommendation service in collaboration with the data science team.

pro!vision / Senior Software Engineer, Apr 2013 - May 2018, Berlin
Developed internal libraries and user interfaces to support various CMS and R&D projects for prestigious clients including Volkswagen, Adobe, Daimler, Bentley, Aldi, Mini, Siemens.

AKQA / Senior Software Engineer, Oct 2010 - Mar 2013, Berlin
Constructed user interfaces across a diverse array of projects for Volkswagen and other clients.

Skills

Python	Django, FastAPI, Flask, Pandas, NumPy, Matplotlib, Jupyter, PIL
Javascript / Typescript	React, Node.js, Svelte, Astro, vanilla, Express, Fastify, NestJs, Gatsby, D3, CSS-in-JS
Data	SQL (PostgreSQL, MS-SQL), Big Query, MongoDB, GraphQL, Redis
ML Ops	Kubeflow, Vertex AI, Kubernetes, Docker, Terraform, Grafana, Prometheus, Kibana, GCP, AWS
Management	Project Management, Team Leadership, Mentoring, Hiring, Conflict Resolution, Agile Methodologies, Stakeholder Coordination

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Education
University College London / B.Eng Electronic Eng. with Computer Science, 1994

Languages
English, Italian (fluent), German (intermediate)