# Kenan Agyel

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## Professional View

**Senior Software and Machine Learning Engineer** with over eight years of experience in advanced technological environments, including startups and large corporations, specializing in Python, Java, and API development.
My current project is a universal document scraper using Langchain, RAG and large language models.

**Expert in API Architecture:** Proficient in designing and enhancing robust APIs, improving system interoperability and performance with Python's FastAPI and Java's Spring framework.

**Leadership in Technology:** Proven track record of leading technical teams and managing large-scale projects, with experience overseeing up to 50 full-time employees across multiple teams. Skilled in fostering a collaborative team environment, mentoring junior engineers, and leading by example to achieve high-performance goals.

**Advanced Skills in Machine Learning and AI:** Deep knowledge in artificial intelligence, with a specialized focus on data integration, natural language processing (NLP), and generative models. Well-versed in Large Language Models (LLMs), Retrieval-Augmented Generation (RAG).

**Database and Integration Expertise:** Demonstrates strong competencies in data analysis and database management, adept at using SQL Alchemy for data access and integrating diverse databases and data sources.

**Proficiency in Development and Operations:** Skilled in CI/CD practices, containerization with Docker, and orchestration using Kubernetes, enhancing development processes and system reliability.

**Innovative Problem Solver and Lifelong Learner:** Committed to continuous improvement and learning, with excellent communication skills that enhance team collaboration and project success.

## Professional Experience

### Remote Contractor/Senior ML/SW Engineer
04/2021 – 11/2023
Mostly AI – Vienna

*Core Product Development*
- Developed a robust core engine for structured synthetic data generation using ARGN.
- Utilized Python, TensorFlow, PyTorch, NumPy, and Pandas for scalable solutions.

*Interactive Reporting Tool*
- Created an interactive reporting tool with Plotly, PySpark, Pandas, converting static PDF reports to dynamic HTML visualizations.

*Data Integration and Analysis Tool*
- Designed and engineered data integration tool across databases (PostgreSQL, Oracle, MySQL, MS-SQL, Snowflake, BigQuery) and cloud platforms (AWS S3, Azure Blob, GCS).
- Developed a FastAPI and SQL Alchemy-based API for abstraction of data tasks.

*DevOps and CI/CD*
- Mastered Docker, Kubernetes, Git, GitHub, and Travis for CI/CD, enhancing workflow efficiency and code quality.

### Consultant/SW Solution Architect
06/2018 – 04/2021
Verifone Holdings, Inc. (Region EMEA)

*General*
- Designed PCI DSS compliant card payment solutions.
- Utilized OpenSSL for key management on payment terminal platforms.

*Android Java Based Terminal Applications*
- Architected and implemented a Java Android payment terminal application for Akbank.
- Created a Java manager application to oversee all payment applications and messaging.

*C++ Based Terminal Applications*
- Developed a core C++ framework for Verifone payment terminal applications, providing an abstraction layer between financial applications and hardware.

*DevOps and CI/CD*
- Implemented DevOps and CI/CD processes using Git, Bitbucket, Jenkins, and Artifactory.

### Consultant/Artificial Intelligence, ML/DL
09/2016 – 04/2018
Munich AI Laboratories GmbH

*Speech-to-Text Engine*
- Developed a speech-to-text engine based on Baidu Deep Speech paper.

*Data*
- Prepared multilingual data for the speech recognition project.

**VP of IT, Operations & Datacentre Services**

09/2015 – 08/2016

BrainLoop AG, Munich, Germany

- Led IT and Operations teams managing multinational SaaS datacentre environments, including hosting and housing.
- Directed selection and management of service providers using ISO 27001 criteria.

**VP of Data, Storage and Disaster Recovery (7 heads - 40 people in total)**

04/2012 – 04/2015

Garanti Bank, Istanbul, Türkiye

- Led database, storage, DWH and disaster recovery teams managing banks all data and data related processes.

**Group Manager of Infrastructure and Applications**

08/2000 – 04/2012

Garanti Technology, Istanbul, Türkiye

## Education

**B.Sc. in Computer Engineering**

1987 - 1992

Middle East Technical University (METU), Department of Computer Engineering, (Ankara), Turkey

## Languages

| | |
|---|---|
| Turkish | Native |
| English | Full Professional Proficiency |
| German | Limited Working Proficiency – *B1 level Goethe Institute Certificate* |