Software Engineer and Consultant
Adnan Siddiqi
(BS, Computer Engineering)

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Objective

A seasoned technologist with extensive experience in software engineering and data pipelines, seeking a remote opportunity to contribute to innovative projects in Generative AI and Large Language Models.

Skills

Languages: Python, PHP, Go
Databases:- MySQL, PostgreSQL, SQLite, MongoDB, Kafka, and ElasticSearch
Frameworks:- Laravel, Django, Flask,
DevOps-: Python Fabric, Docker, AWS.
ETL: Airflow, Bonobo, Luigi, Spark.
LLM: Inference APIs integrations offered by OpenAI, Claude, and Gemini. Embeddings and RAG
Others: BioPython, Elasticsearch, Neo4j, Kafka

Work Experience

Marketing Automation & Conversational AI Manager
MyMarketingPass - December 2023 - Present
Transforming business processes through AI-driven innovations to enhance efficiency and drive organizational growth.

Optimized Content Generation: Leveraged Large Language Models (LLMs) and OpenAI APIs to automate content creation, achieving a 3x cost efficiency while streamlining editing workflows for higher-quality outputs.
CustomGPT Integration: Implemented advanced GPT-based solutions using OpenAI Assistant APIs and VoiceFlow, democratizing AI-driven tools for content creators and enhancing service offerings.
AI-Powered Business Automation: Spearheading the development of an end-to-end AI-enabled sales and support system, automating customer acquisition, ticket generation, and task workflows.

ETL Developer
Tellus App, Inc - April 2017 - Jan 2022
Automated data pipelines and optimized data acquisition to enhance business insights and support organizational growth.
- Designed and implemented an AWS-based infrastructure for 24x7 data pipelines, automating workflows with Python Fabric across ~20 AWS instances.

- Developed scalable Python scrapers to extract 300K+ daily records per site using parallelism and proxies, ensuring efficiency and accuracy.
- Leveraged Selenium with PhantomJS and ChromeDriver to scrape dynamic, JavaScript-rendered websites.
- Built robust ETL pipelines for data acquisition and transformation, enabling seamless accessibility for cross-functional teams.

Self Employed/Freelance Consultant

December 2012 - Present
Provided AI-driven solutions and automated systems for diverse industries, with a focus on Generative AI and trading automation.

- **Generative AI Demo Applications**: Developed LLM-based tools such as chatbots, text summarization systems, and content generators using OpenAI APIs and custom GPT models.
- **Algorithmic Trading Systems**: Automated trading strategies for clients using Python, enhancing risk management and decision-making efficiency.

Project Lead

TradeKey Private Limited - January 2009 - December 2011

Senior Software Engineer

TradeKey Private Limited - January 2009 - December 2011

Side Projects

As a part of my journey exploring and learning new technologies, I got a chance to work on personal projects as well. Some are mentioned below:

- **Project Recommendation System:** Built a toy recommendation system using OpenAI embedding APIs.
- **Avatar Generation:** I used OpenAI Image APIs to create avatars based on user preferences.
- **AI Cover Letter Generator:** I used Gemini API for this purpose. Python Flask was the frontend.
- **Financial Blog Automation:** Used Gemini(then Bard) and WordPress APIs to generate financial posts about markets.
- **Real estate chatbot:** Voiceflow based real estate lead generation chatbot that also recommends properties
- **GoCache(**https://github.com/kadnan/GoCache**):-** A simple Cache Server in **Go** based on the LRU algorithm which is also used on MemCache.
- **Fehrist(**https://github.com/kadnan/Fehrist):- A pure **Go** library for indexing different types of documents. Currently, it supports only CSV and JSON but flexible architecture gives you the liberty to add more documents.
  Python generates the code of a web scraper based on rules given in a file.