Adnan Siddiqi

Software Engineer, ETL Developer, Technology Consultant

Home: http://adnansiddiqi.me
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Summary

- A curious technologist having many years of experience in designing and developing solutions for desktop, mobile, and web for financial, e-commerce, and ISP sectors.
- Ability to find out business problems and provide the best-fit solution.
- Highly innovative. Good Analytical and Entrepreneurial skills that lead to finding out newer ideas from existing systems based on data.
- Excellent communication and learning skills.
- 10+ years of experience as a remote worker and well equipped with relevant communication and management technologies to get things done properly. Enjoys working both as a team member and individual. Always ready to help members when there is a need.
- An avid reader who is fond of reading books on various topics; from philosophy to business.
- A passionate writer and teacher who uses blogging and video platforms for sharing knowledge with local and international communities by writing articles and making videos in English and Urdu language.
- Quite Up-to-date with the latest trends in the field of Information Technology and Business.
- Business and technical knowledge of B2B and B2C marketplaces.

Technical Skills

- Python (Web Scraping, Automation tools, ETLs, Flask, Pandas, Django)
- PHP (Core, Laravel Framework 5+, CodeIgniter and SLIM)
- JavaScript (Gulp, React *(beginner)*, Vanilla, jQuery).
- CSS (Bootstrap 3 & 4)
- Databases: MySQL, PostgreSQL, SQLite, MongoDB*(beginner)*, Cassandra*(beginner)*, Kafka*(beginner)*, ElasticSearch *(familiar)*
- Blockchain: Stellar Python SDK, IPFS*(beginner)*.
- DevOps: Python Fabric, Docker, K8s*(beginner)*, AWS.
- Chrome Extensions
- Go*(beginner)*, Rust *(beginner)*.

Other Skills

- Technical Blogging
- Website Performance and Optimization
- On-page SEO.
- Running a tech channel on Youtube for the local Urdu/Hindi communities.
- Basic graphic designing skills in Photoshop and Canva.
- Basic Video editing skills in iMovie and Camtasia.
- An avid book reader.

Experience

ETL Developer
Tellus App, Inc / Palo Alto, California / April 2017 - Present

Working as a team member of the "Data Department" of a fintech startup that is responsible for every aspect of data; from data acquisition to data cleaning thus providing the up to date data and maintaining its health. Some of my work highlights are given below:

- As an early member, I set up an AWS based infrastructure of data pipelines that fetch from multiple sources on a 24x7 basis.
- Used **Python Fabric** to manage and automate ~20 AWS instances.
- Writing scalable scrapers in **Python** to fetch hundreds of thousands of records from online data sources on a daily basis by using **requests** and **beautifulsoup** library. By introducing parallelism, I was able to download at least **300K records per day per site** with the help of using proxies.
- Using the **Selenium** library with **PhantomJS** and **ChromeDriver** to scrape data from dynamic websites that render data via Javascript.
- Setting up ETL/Data Pipelines for acquisition and transformation of data to make it available for other teams.

Self Employed Consultant
December 2012 - Present

As a freelancer and consultant, I have dealt with a variety of projects like crawlers, scrapers, data mining tools, custom web applications, enterprise software. A few of the details are given below.

- Developed a Stellar Crypto Token based commodity trading exchange system that used to trade metals by transferring a custom token. The backend system was developed in **Python using Stellar SDK** while the web-based trading system was developed in **PHP** and **Laravel**.
- As a part of *eParts and More, Inc,* I wrote various automation tools and crawlers for websites like Amazon, Rakuten, BestBuy, and a few others in **Python, requests,** and **bs4**.

- As a part of *Inoutput,* I was responsible for developing project management and estimation tool in **PHP Laravel 5.2** and **MySQL**.
- As a freelance Contractor for *SmartConnect NV*, I wrote a **socket-based custom module in PHP** that provides a communication channel for the contact center system.
- As a freelance Contractor for *eReality Solutions*, I developed the initial version of the Darullfta Management System for *Darul Uloom Karachi,* in **C#** and **Oracle** that takes care of the entire workflow from beginning till end.

Project Lead
TradeKey Private Limited / Karachi, Pakistan / 2009 - 2011

As a lead, I was responsible for taking care of various aspects of projects; from finding out a solution to a problem to writing code and managing a team. I am also involved in RnD related work where required. I suggested and then successfully implemented Ad Server Solution for the company which is currently being used by some high traffic websites. Some of the details of the projects during this tenure are given below:

- Auto-tweeting utility in **PHP/Twitter API**. Boosted Social Engagement 70% and sales 10%
- A utility to map millions of records into various categories. Boosted site traffic by **10%.**
- Implemented **the OpenX Ad server** which increased Ad revenue by **70%**.

Senior Software Engineer
TradeKey Private Limited / Karachi, Pakistan / 2008 - 2009

Worked both as a team player and in an individual capacity to develop and enhance various front-end and back-end systems of the B2B portal. Projects done during this tenure are given below:

- As a part of the optimization team, I wrote a **PHP** based module to offload the heavy data which decreased the time delay from **22 seconds to 2 seconds**.
- Revamped Tradeshows section which improved traffic from **1.5K visits/day** to **5K visits/day**.
- Developed module for an in-house CRM module to track the performance of sales staff.

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:

- **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.
- **ScrapeGen(**https://github.com/kadnan/ScrapeGen**):-** ScrapeGen is a simple tool written in **python** that generates the code of a web scraper based on rules given in a file.

Education

- BS in Computer Engineering from Sir Syed University of Engineering and Technology, Pakistan.

References

- To be available on request.