

# WALEED AHMAD

## SOFTWARE DEVELOPER

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### PROFILE

Highly motivated and forward-thinking developer with a passion for harnessing emerging technologies to create efficient and elegant solutions. Experienced in thriving within multicultural environments, collaborating with global clients, and employing a variety of problem-solving approaches. A commitment to staying current with the latest technologies and innovations ensures that I continually expand my skill set. My strong multitasking abilities and collaborative mindset make me an effective team player, ready to contribute to projects at multiple levels. Ability to comprehend business problems and build innovative solutions by using excellent communication and project management skills. Extensive knowledge of popular programming paradigms and design patterns allow me to deliver optimized solutions.

### WORK EXPERIENCES

#### Full Stack Developer

*Strategic Systems International*  
2022-present

- Accomplished full-stack developer adept in diverse domains, spanning frontend, backend, and microservices.
- Proficiency in .NET 6, Angular, React, Python, Azure services, and cloud solutions such as Azure CI, Azure CosmosDB, and Azure API Management.
- Expertise in data analysis, visualization with Elasticsearch and Kibana, and real-time data streaming via Kafka.
- Skilled in implementing caching solutions using Redis and containerization with Docker.
- Consistently recognized for strong problem-solving skills and outstanding developer performance.

#### Freelance Developer

*Fiverr*  
Level 2 Seller  
2017-2022

- Undergraduate experience as a freelance software developer on Fiverr.
- Proficient in data scraping, artificial intelligence, and database management.
- Notable projects included data scraping using various methods, API manipulation, beautiful soup, selenium, and playwright.
- Collaborated with clients worldwide, consistently delivering high-quality code.
- Achieved a Level 2 rating with all 5-star reviews.

### SKILLS

#### Software Development

ASP.NET, Node.js, Flask, React, Angular, Next.js, Electron.js, Express, PostgreSQL, MongoDB, SQL, Firebase, Python eel, Basic Web Development (HTML, CSS, Sass), Docker, Redis, Apache Kafka, Elasticsearch

#### Data Scraping

Selenium, Beautiful Soup, Playwright, BrightData, Puppeteer, Cheerio, Jupyter

#### Cloud

Azure API Management, Azure Function Apps, Azure App Service, Azure CosmosDB, Azure DevOps

#### Graphic Design

Adobe Photoshop, Adobe Illustrator, Adobe XD, Figma

#### Programming Languages

Javascript, Typescript, Python, C#, C++, SQL

## EDUCATION

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### Bachelor's in Computer Science

National University of Computer and Emerging Sciences (FAST-NUCES), Lahore

CGPA: 3.2/4.0

2018-2022

### F. Sc. Pre Engineering

Forman Christian College

2015-2017

## RECENT PROJECTS

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### BLOCKCHAIN BASED DIGITAL IDENTITY MANAGEMENT

- **Tools & Technologies:** Blockstack.js, Node.js, Javascript, React, Hiro Wallet, MongoDB
- **Overview:** A project aimed to provide secure method of storing and sharing digital credentials, certificates and degrees. It utilizes decentralized networks to eliminate storage of important credentials on vulnerable servers that are prone to hijacking and hacking. The blockchain architecture makes sure that the credentials are tamper-proof by generating Non-fungible tokens of the credentials. It uses smart contracts written in clarity and is built on Stacks Blockchain, Node.js and React Framework, paired with Gaia as the cloud provider for storing secured credentials.

### IoT-BASED DATA DASHBOARDING

- **Tools & Technologies:** .NET 6, Microservices, Angular, Postgres, Redis, Kafka, Elasticsearch, Kibana
- **Overview:** The project is about agricultural harvesting and loading machines produced by a company which is leading manufacturer of machines for harvesting sugar beets and potatoes, not only in Germany but also throughout Europe. All machines send the data to a server using CAN bus protocol which stores that data into Time Series Influx database and Kafka as well. There is a service that calculates the KPIs and position data for those machines. A web portal displays all the data related to KPIs and position of all machines.

### CLOUD-BASED MICROSERVICE CUSTOMER PLATFORM

- **Tools & Technologies:** Azure Cloud Services, Microservices, .NET 6
- **Overview:** This project relies heavily on multiple services and is aimed to bring people closer through the leading intelligent hearing, audio, video, and gaming solutions. Inspired by people and driven by innovation, it enhances the senses of hearing and sight. It helps people with hearing loss overcome real-life challenges, improve communication and collaboration for businesses, and provide great experiences for audio and gaming enthusiasts. Using microservices architecture and deployed on Microsoft Azure cloud services (with a combination of Azure Cosmos, Function Apps and API Management), the customer data platform (CDP) manages customer data. It uses .NET technologies to provide a scalable, resilient, and secure environment for handling customer data. Data is pulled from multiple sources, cleaned and combined to create a single customer profile.

## **CONTEXT BASED LEARNING WITH OPEN AI**

A research project focused around Chat-GPTs APIs utilizing a much smaller dataset of products. This AI project learns a set of products and their ratings from amazon. Chat-GPTs APIs are then used to respond on questions related to these products in this context only, rather than responding on them generally. The intended research about customizing datasets and Open AI proved to be successful.

## **DRAFTKINGS AIO DATA TOOL**

A set of tools based on multiple data scraping methods, which collect and build a database of most information related to DraftKings games including NFL, MLB and NBA. The tools helps generate player rankings and other information helpful in judging player performance and other criteria required.

## **WALL PANTHER - ANDROID**

Wall Panther is a wallpaper app which lets you view, download, and set wallpapers on both home and lock screen. The app takes wallpapers from popular mobile wallpaper subreddits on Reddit, and puts them in one single place while giving credits to the original artists of the wallpaper. It is built