

# Muhammad Muneeb

## Software Engineer

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### Education

2018 – 2022 **BSCS**  
Faisalabad *Fast NUCES*

### About Me

Innovative Programmer to make the world a more unified and connected place. Back-End Engineer with over 3+ years of expertise in developing robust and scalable web applications and APIs. Proficient in Dot-Net and Python Frameworks, delivering high-quality solutions that drive user engagement and enhance overall user experience.

My technical proficiency includes languages and frameworks such as Python, Django, FastAPI, JavaScript, .NET Core, .NET MVC, C#, and React. Successfully implemented projects for diverse industries, Optimizing Code Efficiency and ensuring seamless functionality. Strong problem solving skills and a Collaborative Approach, Driving successful project outcomes. Able to effectively self-manage during independent projects, as well as collaborate as part of a productive team.

My experience spanning multiple industries, including E-commerce, Healthcare, and Salesforce. I possess significant expertise in a wide range of programming languages and development tools, specializing in the design and maintenance of scalable web applications. In addition, I have extensive experience with cloud deployments on platforms like AWS, Azure, and Digital Ocean. Throughout my career, I have thrived in various team environments, from leading small teams to collaborating within larger groups of up to 25 members. I have successfully built infrastructure from the ground up in startup settings and have a proven track record of delivering over five projects with an impressive 87% success rate.

### Skills

Django

FastAPI

Restful API

C#

ASP.NET

DotNet

SQL/MySQL

PostgreSQL

Firebase

MongoDB

Xunit

Nunit

Pytest

GitHub

AWS

Azure

BitBucket

Jira

Watchdogs

Docker

Selenium

BeautifulSoup

Scrapy

### Professional Experience

Feb 2023 – present  
Lahore

**Devsinc**  
*Software Engineer*  
**Web Scraping:**

- Proficient in utilizing **Selenium**, **BeautifulSoup**, and **Scrapy** for various types of web scraping, data retrieval, and data analytics, enabling efficient extraction and analysis of valuable information from diverse online sources.

#### **Django Development:**

- Designed and implemented robust REST APIs using Django REST Framework (DRF), facilitating efficient data exchange and integration with other services.
- Developed and maintained scalable Python-based applications, ensuring high performance and reliability.
- Participated in code reviews and provided mentorship to junior developers, promoting best practices in Python coding and API development.
- Created a management system using FastAPI, incorporating features like user authentication, data management, and reporting functionalities.

#### **FastAPI Development:**

- Built a comprehensive management system from scratch using **FastAPI**, streamlining administrative tasks and improving operational efficiency.
- Integrated database solutions and optimized queries for better data retrieval and storage management.
- Implemented security measures to protect sensitive data and ensure compliance with industry standards.
- Provided thorough documentation and training for end-users, ensuring smooth adoption and effective utilization of the new system.

#### **DotNet Development:**

- Implemented critical fintech features, enhancing the financial technology stack and integrating seamless payment processing solutions.
- Refactored and modernized a legacy codebase by upgrading it from DotNet version 3.2 to 6, ensuring compatibility with the latest frameworks and security protocols.
- Conducted thorough testing using Nunit and debugging to maintain code quality and minimize system downtime during the transition.
- Used datadog as observability platform.
- Collaborated with cross-functional teams to ensure smooth integration of new features and maintain alignment with business objectives.

#### **Performance Optimization:**

- Analyzed and identified bottlenecks in a FastAPI product, focusing on areas with high latency and resource consumption.
- Optimized database queries and implemented caching strategies, reducing the product's response time from 5.2 seconds to 0.20 seconds. Conducted
- performance testing and monitoring to validate improvements and ensure sustained performance gains.
- Collaborated with the development team to implement best practices for code efficiency and scalability, fostering a culture of continuous improvement.

## **Projects**

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Jul 2024 – present	<b>Vinsavvy.</b> <a href="https://vinsavvy.ai/">https://vinsavvy.ai/</a> VinSavvy is a comprehensive managerial and analytical tool designed to empower users with detailed insights into the automotive market within their region. The application leverages <b>Selenium</b> for web scraping, with a <b>Django</b> backend and a <b>React</b> frontend, creating a robust platform for vehicle analysis and sales optimization. <b>Regional Analysis:</b> Users can assess the availability of vehicles for sale in their specific region, providing a strategic advantage in the competitive market. <b>Profit Generation:</b> The tool enables users to identify profitable opportunities, enhancing their ability to make informed decisions in vehicle sales. <b>User Authentication and Authorization:</b> Implemented with Django's authentication system, ensuring secure access and user management. <b>Dynamic Dashboard:</b> Built with Django templates, the dashboard provides an intuitive interface for users to visualize data and insights. <b>Email Notifications:</b> Users receive timely alerts via email, keeping them updated on important activities and analysis results. The application is fully deployed on <b>DigitalOcean</b> for reliable performance and scalability.	Dallas, Texas
Feb 2024 – Jul 2024	<b>Kudo</b> <a href="https://kudo.ai/solutions/kudo-ai-speech-translator/">https://kudo.ai/solutions/kudo-ai-speech-translator/</a> As a Software Engineer on the Kudo.ai product, I implemented Azure Text-to-Speech and Speech-to-Speech features, along with orchestrator and segmenter functionalities. I also integrated ChatGPT and Deep Learning APIs to enhance the product's capabilities. Faced with a time complexity issue of 5.2 seconds when concurrently running 50 meetings, I transitioned the backend from SQLAlchemy to Tortoise ORM to achieve asynchronous functionality and enabled multi threading. This optimization reduced the time complexity to 1.3 seconds, significantly improving performance and scalability.	United States
Jan 2024 – Mar 2024	<b>Chronos</b> <i>Microsoft in-house product</i> As a Software Engineer at Microsoft, I upgraded their in-house asset management software, Chronos, from Dot-net version 4 to FastAPI. I replicated all functionalities and created CI/CD pipelines to streamline deployment. Also used the Azure as managerial roles and then authentication was done by Azure Active Directory (AAD). Enhanced the front-end by 15% in terms of user experience and redesigned the database for optimal performance. Revamped the architectural structure to improve scalability and maintainability. Conducted unit testing using PyTest, achieving 87% coverage, ensuring robust and reliable code quality.	Springfeild, Virginia

Sep 2023 – Jan 2024

**CuraHealth**

**Elmont, New York**

<https://curahealth.com/>

Cura Health is the perfect partner for managing your appointments with hospitals, labs and doctors. Users can book an appointment with the Cura Health doctors and clinics from their home. We were following HIPAA compliance to ensure data security, implemented proper logging management using sentry and datadog, implemented custom authorization/authentication middle-wares to enhance user access controls and secured data in isolation with proper multi-tenancy implementations.

Feb 2023 – Sep 2023

**Deaglo**

**L.A, California**

<https://www.deaglo.com/>

Worked as a lead SE and led a team of three Engineers, where I actively contributed to the dev team and implemented bunch of strategies related to fin-tech. facilitating international investments with advanced statistical features including value at risk, hedge efficiency, and portfolio stress testing. Translated complex financial calculations in the Python back-end and integrated it with a robust Dot-Net implementation, ensuring seamless integration with a React front-end. Enhanced the system's accuracy and efficiency, providing users with reliable and comprehensive investment analytics. Also worked closely with AWS services including server less lambda, RDS, S3 bucket, EC2 instances and AWS amplify. Being a lead, I managed the deployment and release on multiple environments. Also manage the Scrum meeting while following Agile methodology.