Abolfazl MOSLEMIAN

SOFTWARE DEVELOPER | ML & DATA SCIENCE SPECIALIST

Phone: +989129537270 | Email: abowfzl@gmail.com

LinkedIn | Personal Website | Stack Overflow | GitHub

SUMMARY

I am a self-motivated software developer and machine learning specialist with skills in creating maintainable, cloud-based applications using the .Net platform. I am proficient in structured design, software engineering, and production environments. I am also interested in AI, deep learning, machine learning, and neural networks. My career goal is to advance AI applications in various fields and software development ecosystems.

WORK EXPERIENCE

- **Software Developer**   Apr 2023 – Oct 2023
  Exbito, Tehran, Iran
  - Unit Testing:
    - Developed comprehensive `unit tests` for new and existing projects.
  - Code Refactoring:
    - Refactored code and applied design patterns for clean architecture.
  - Project Migration:
    - Migrating from previous `Python` project to `.Net`.
  - Infrastructure Monitoring:
    - Implemented `Grafana` for real-time infrastructure monitoring, ensuring 99% uptime.
  - Identity Management:
    - Set up an `identity server` for user authentication and API accessibility.
  - Financial Project:
    - Designed and developed a new financial application to monitor balance usage.
  - API Development:
    - Developed new versions of `APIs` in `.Net`.
  - Dashboard Creation:
    - Built Dashboards in `Kibana` for application monitoring.
  - Cron Job Migration:
    - Migrated and improved `cron jobs` to `.Net` background services, making them loggable and testable.
- **Backend Developer**   Sep 2021 – Apr 2023
  Mootantroo, Tehran, Iran
  - Image Upload Project:
    - Developed a system for uploading and resizing images using `Amazon S3` and `Minio`, integrating the process into the main application to generate `URLs`.
  - Developed a new `Restful API` from (`MVC`) to `CQRC (MediatR)` Pattern:
    - Implemented authentication, refresh token, exception handling, and logging with `Serilog (elastic formatted to log in to Kibana)`.
    - Use `TraceId` for error tracking.

- Refactored services and optimized queries.
- Switch from `sync` to `async` and tuning queries and prevent running a query multiple times for one result.
- Developed a 3-layer distributed caching (`Redis - EF - memory`).
- Decupled domains from a previous monolithic and spaghetti project for `micro-service` and `DDD ORM`.

o Built internal APIs based on the `CQRS` pattern to contribute with other middleware like (`financial and CRM`)
o Barcode Scanning:
  - Implemented barcode for scanning and processing product barcodes, ensuring accurate inventory management.
o Performance Optimization:
  - Performance tuning in checkout pages and improving it up to 10 seconds.
  - Excel upload performance tuning on the admin side: `receive Excel, process it in the background with Semaphore, and send a notification for the result.`
  - Improve performance and refactor discount services to apply and check requirements by running a query only once in each request.
o Concurrency Management:
  - Handled concurrency and data integrity issues with `SQL` transactions and `EF`.
o Payment Transaction:
  - Developed and optimized payment transactions on `SQL` in `EF` and `LinqToDb`.
  - Implement `stored procedure (SQL)` on the project for continuous work.
o Algorithms:
  - Implement a delivery `time-scope` algorithm based on product delivery and transit time, considering holidays and the time scope in which the warehouse could not receive products from the seller.
  - Implement an algorithm for creating seller packages based on orders and delivery times.
o Cross-Selling Features:
  - Developed new features to display `cross-selling` and related products on product detail pages, increasing customer engagement and potential sales.

- **Junior Backend Developer**   Sep 2020 – Sep 2021
  Mootantroo, Tehran, Iran
    o Crawler Project:
      - Developed a web crawler using `HTTP client factory` design to gather business data.
    o Legacy API Integration:
      - Designed and fixed over 20 endpoints for a legacy Android app using existing `PHP` APIs without modifying the app.
    o Bug Fixing:
      - Conducted a two-month bug-fixing sprint for the shopping and admin panel before the main project launch.
    o Event Consumption:
      - Set up a `domain-driven` design project to consume events `Kafka` to update products on the `Elastic` stack.
    o Performance Optimization:
      - Performance tuning and optimize 70% of home page load time.
      - Reduce up to 90% of `Redis` connection per request for load homepage.
    o Warehouse Location:
      - Developed factors and product labels for determining warehouse locations.

- o Delivery Estimation:
  - Developed schedule `time-scope` to estimate delivery date to customers.
- o Dynamic Brand Page:
  - Developed a brand page with sorting and search functionalities in `English` and `Persian`.
- o Fulfillment Features:
  - Develop, improve, and fix fulfillment, warehouse, and supply feature bugs.
- o Seller Payouts:
  - Developed `background jobs` for generating seller payout invoices.
- o Legacy Code Refactoring:
  - Refactored and maintained legacy code based on `Nop-Commerce`.

- **Intern**   Jun 2020 – Sep 2020
  `Mootantroo`, Tehran, Iran
  - o E-commerce Business Understanding:
    - Learned about the `e-commerce` business and set up Business Process Management (`BPM`) and Business Process Model and Notation (`BPMN`) for all teams, documenting their workflows.
  - o learn `HTML` and `CSS`, `JavaScript`
  - o Gained knowledge in `C#`, `.Net framework`, `SQL`, `MVC`, and Design patterns (`Factory Method, Abstract Factory, Chain of Responsibilities, Decorator, Facade, Singleton, Mediator`).
  - o Learned `Nop-Commerce` platform for e-commerce solutions.

SKILLS

- **Programming Language:**
  - o Python:
    - NumPy, TensorFlow, Pandas, Scikit-learn, Matplotlib, Plotly, PyTorch, Keras
  - o C#:
    - .Net Core and Asp .Net Core
- **Database:**

  SQL Server, PostgreSQL, My SQL, Elastic, Redis

- **Web Development:**

  ASP.Net Core, REST APIs, Fast API, Flask

- **Soft Skills:**

  Solving problems, Adaptability, Team collaboration, Innovative mindset

- **Methodologies:**

  Agile, Scrum, CI/CD

- **Tools & Platforms:**

  Docker, Kubernetes, Grafana, Kibana, Minio, AWS S3

EDUCATION

- **B.Sc. Computer Engineering**   Sep 2019 – Sep 2024
  Qom University, Qom, Iran

  - Ranked among the top 10% of faculty undergraduate students.
  - Pursued advanced studies in `machine learning`, `artificial intelligence`, `large language models`, `deep learning`, `neural networks`, and `image processing`.
  - Engaged in university projects such as `ChatGPT`, `LLM`, `Image recognition`, and graduate-level research collaborations.
  - Grade: A

- **Mathematics Diploma**   Sep 2016 – Jun 2019
  Saniefar Governmental Leading High School, Tehran, Iran

  - Grade: A+

RESEARCH EXPERIENCE

- **Smart Software Lab**   Nov 2023 – Present
  Qom University, Qom, Iran

  - Developing `machine learning algorithms` for personalized travel planning in the `Travel Adviser` project
  - Utilizing `ChatGPT`, `GPT4All`, `LangChain`, and `Neo4j` to enhance `Travel Adviser` project
  - Gaining hands-on experience in `AI`, `natural language processing`, and `data analysis`, preparing for advanced research
  - Being experienced in `Deep Learning Algorithms` for Classifying

PROJECTS

- **Pigeon**

  A monolithic, clean architecture .Net dual-purpose project designed to help website owners monitor and manage the status of their web pages and also perform data mining to extract insights from news publisher websites. `GitHub`

- **Balancer**

  .NET web API application built with the principles of Clean Architecture, which emphasizes separation of concerns, testability, and maintainability to provide a flexible and scalable solution for managing user accounts, transactions, and configurations. `GitHub`

- **Sparrow**

  An API project implementing the CQRS(MediatR) pattern to decouple command and query databases. `GitHub`

- EpicPic

  Convolutional neural networks to improve image recognition accuracy in face recognition led to the recognition of up to 97.38% of student and staff faces while delivering food.

- Travel Adviser

  A chatbot for creating a vacation planner recommendation in Persian for travelers using technologies like ChatGPT, Langchain, and Neo4j. Demo & GitHub

COURSES AND CERTIFICATES

- **Machine Learning** by Stanford University, Coursera   Jul 2022

  Grade: 92. 65

- **Python for Data Science, AI & Development** by IBM, Coursera   Feb 2023

  Grade: 94. 91