Reza Heidari

Full Stack Web Developer

A Software Developer specializing in C# and .NET. With proficiency in JavaScript, TypeScript, databases, and cloud tech, I excel at creating well-structured, clean code. Passionate about building new things, I turn innovative ideas into functional, efficient solutions.

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⚙ TECHNICAL SKILLS

Programming Languages	C#, JavaScript, TypeScript, Python	**Web Frameworks**	Asp.Net Core API, Asp.Net MVC, React, Next.js, Angular, HTML, CSS,
Windows Development	Windows Forms, WPF Applications, XAML, Telerik Controls	**Database and Structures**	MS SQL Server, PostgreSQL, MySQL, Redis, Elasticsearch
Cloud Technologies	Azure Functions, Azure App Service, Azure Identity, Azure Blobs, Azure Static Websites	**Server and DevOps**	Docker, Linux, IIS, Windows Server, VPS Administration
Architectural Patterns and Concepts	MVC, MVVM, Clean Architecture, CQRS, Microservices	**Third Party Libraries**	Refit, Serilog, MediatR, FluentValidation, xUnit, Shouldly, NSubstitute, AutoMapper, Asp.Net Zero, ABP Framework

💼 WORK EXPERIENCE

Software Developer
Arneca Technologies

05/2022 - Present   *Istanbul/Turkey*

Arneca Technologies is a Turkey-based software firm founded in 2009. Specializing in custom-fit software solutions, offer end-to-end development.

Achievements/Tasks

- Develop and maintain high-quality, resilient production code across a diverse range of client projects, including but not limited to partnerships with Amplicade GmbH for the Cleverpace project in the insurance sector for EFM Versicherungsmakler, and a series of initiatives for Memorial Hospitals Group.
- Collaborate closely with creative directors to lead the research, development, and architectural design of technical solutions tailored to specific business objectives and needs.
- Engage in cross-functional partnerships with designers, project managers, and other engineers to convert innovative ideas into viable production solutions that align with client and stakeholder expectations.
- Cultivate a culture of excellence within the engineering team through the promotion of close collaboration, knowledge sharing, and mentorship, thereby enhancing overall team capabilities.
- Champion and manage company-wide accessibility initiatives, which include creating technical documentation of best practices and delivering training on screen reader technology, to ensure a user-friendly and inclusive experience.

💼 WORK EXPERIENCE

Software Developer
Mat BioMedical

02/2021 - 05/2022   *Istanbul/Turkey*

Mat BioMedical focused on manufacturing medical therapy, rehabilitation, active training and robotic gait systems.

Achievements/Tasks

- Developed and maintained web-based applications to manage water therapy devices, enhancing the rehabilitation and performance of patients.
- Engineered and deployed custom servers for end-effector systems that facilitate active training and encourage patient self-activity.
- Designed and implemented management software for robotic gait systems, aiding therapists in the rehabilitation of patients with irregular walking patterns.
- Created and launched a custom library for Price Action/Signal Detection, capable of synchronously connecting to and managing market orders across multiple trading platforms and stock markets.
- Architected and implemented a user interface for back-testing and forward-testing custom algorithmic trading strategies, utilizing broker APIs and subscription network channels.
- Developed and launched an interactive website for product representation, ordering, and customer service management.

Software Developer
Negin Nassaj Asia

04/2015 - 08/2020   *Tehran/Iran*

Negin Nassaj Asia was a leading spare part provider in Iran's textile industry, importing machinery from Asia and Europe

Achievements/Tasks

- Developed, maintained, and deployed production code for client websites using key technologies such as ASP.NET, HTML, CSS, and JavaScript.
- Contributed to the development, debugging, and quality assurance of legacy Windows Applications and WPF applications with extensive codebases, ensuring cross-system compatibility. Clients included major companies in the Iranian textile industry.
- Regularly presented technical information to stakeholders in an understandable format during meetings, while also mentoring team members and identifying opportunities to boost productivity and team morale.
- Placed a strong emphasis on software quality throughout the development lifecycle by employing rigorous testing protocols and following industry best practices, resulting in reliable and maintainable code.
- Provided after-hours support for applications within my area of responsibility, thereby contributing to the overall stability and reliability of both live and offline products in the software ecosystem.

Software Developer
Atra Dade Pardaz

07/2013 - 04/2015   *Tabriz/Iran*

Atra Dade Pardaz specialized in developing Windows and web applications tailored to customer needs. The company offered a range of software services.

Achievements/Tasks

- Played a pivotal role in the development of a robust application built on the .NET Framework, designed to efficiently update diverse client websites in sectors like advertising agencies, newspapers, and journals.
- Engineered a solution that seamlessly integrated with server-side MySQL and SQL Server databases, utilizing SOAP and XML Web Services to facilitate comprehensive CRUD operations across multiple tables.
- Developed a server-side application using Windows Forms responsible for hourly updates to client-side Access Databases, ensuring timely and accurate content synchronization.
- Regularly created and presented status reports to keep the team and stakeholders updated on project progress.
- Actively participated in status meetings to align the team's goals and strategies.
- Provided ongoing support for existing systems while also leading the design of new systems tailored to meet client requirements.

⚗ SOFT SKILLS

Problem-solving　Time Management　Attention to Detail　Leadership　Teamwork　Project Management

📜 CERTIFICATES

RU102N: Redis for .NET Developers (06/2023 - Present)
The RU102N is for .NET developers to integrate Redis into their projects. It covers StackExchange.Redis, Redis data structures

ACCP: APTECH Computer Education (08/2008)
The ACCP certificate is a professional credential aimed at individuals who want to demonstrate proficiency in key areas of computer science and IT.

📐 PERSONAL PROJECTS

Calcutext (01/2023)
- Calcutext is a powerful calculator that goes beyond simple arithmetic calculations to generate straightforward mathematical formulas and natural language descriptions. Take the Summation operation as a case in point. GitHub Repository

Price Action Strategy Builder (08/2021 - 04/2022)
- Strategy Builder is a comprehensive C# library that utilizes well-designed patterns to analyze financial market price movements. It transforms market noise into meaningful object-oriented categories and offers the capability to apply a broad array of patterns. GitHub Repository

Fun Translate (04/2022 - 05/2022)
- Fun Translate offers a streamlined approach to integrating and using external APIs in an ASP.Net Core API, without the need for third-party libraries. It employs a clean architectural design. GitHub Repository

RedisAllCode (05/2023)
- RedisAllCode is a code repository featuring a wide array of practical examples for utilizing Redis as an in-memory database and caching mechanism. GitHub Repository

Heidari Portfolio (04/2023 - Present)
- It was built with React (Vite), styled with CSS, managed by .NET Core MinimalAPI Clean Architecture backend, used PostgreSQL as persistence, Containerized by Docker, and published on my Linux server. GitHub Repository

🗣 LANGUAGES

English
Full Professional Proficiency

Turkish
Full Professional Proficiency

Persian
Native or Bilingual Proficiency

🎓 EDUCATION

Vocational education
Darolfonon
2008

Bronze Award
ACM Development
2009

🧪 PROJECTS AND CONTRIBUTIONS

Memorial Projects (02/2023 - Present)

As the senior software engineer and team leader at Romania's Memorial Health Group, I was instrumental in architecting and implementing backend services using ASP.NET RESTful APIs. I modernized older applications by migrating them from .Net Core 2.2 to 7.0 STS, adopting Clean Architecture and Mediator design patterns in the process. I deployed Hangfire for background jobs, optimizing Elasticsearch indexing on our in-house Linux servers and creating Elasticsearch-powered endpoints for more effective search capabilities. For caching, I integrated Redis and also connected RabbitMQ with our CRM system. I applied the CQRS pattern to enhance the separation of concerns within the application. I spearheaded our transition from Razor pages to a React + Next.js frontend, refactored React JS-based projects in the CMS, and enhanced UX using vanilla CSS and flexbox layouts—eliminating the need for Bootstrap. Besides code development, I also took on server administration and mentored junior colleagues. I excelled in database design, crafting more than 120 SQL tables using Entity Framework Core's Database First methodology. My contributions also extended to thorough documentation, comprehensive end-to-end testing, and proficient debugging of .Net Framework projects.

Amplicade Projects (05/2022 - 01/2023)

As a senior software engineer, I was pivotal in the development of a SaaS startup project for EFM Versicherungsmakler, an insurance company. Specializing in backend development with C# and DotNet, my scope of work encompassed creating ASP.NET-based RESTful APIs, interacting with external APIs for data processing, and architecting the database using Postgresql as the primary data store. Additionally, I dipped into frontend development, contributing code written in Angular. My role also included integrating AWS S3 for file storage and utilizing frameworks like AspBoilerplate and AspNetZero. I was actively involved in implementing a microservices architecture, leveraging Docker and Kubernetes for containerization and orchestration. I collaborated in maintaining CI/CD pipelines, conducting code reviews, and performing unit tests with tools like xUnit, FluentValidation, and Shouldly. Finally, I contributed to end-to-end testing and project documentation through Confluence.

Water Therapy PLC Management Project (02/2021 - 05/2022)

As a senior developer, I collaborated with a multidisciplinary team of electronic and mechanical engineers to develop an application for controlling water therapy devices. The application—dubbed Aquamill—offered a wide range of functionalities including control of AirJets, Drain Jacks, Acceleration Inverters, and both warm-up and cool-down phases. It also featured a step counter, customizable pause durations, pump filtration systems, and the operation of cold and hot water jets. We utilized a diverse tech stack for this project, including C#, JavaScript, and Python. For PLC management, we implemented EasyModBus, and we created a Single Page Application (SPA) for the user interface. The SPA was developed using JavaScript, Ajax, CSS, and HTML and was hosted on a web server, providing users with an accessible and intuitive control interface.

EasyGate Project (02/2021 - 05/2022)

As a senior developer, I collaborated with a diverse team of electronic, mechanical, and software engineers to develop and refine the software for the EasyGate robotic gait training system. This software, designed in close cooperation with therapists, serves as the control hub for EasyGate, integrating its operational aspects with therapeutic games to provide a motivational and engaging environment for patients. Utilizing a broad tech stack including .NET, JavaScript, and other technologies, we ensured a robust, user-friendly application with an intuitive interface, allowing therapists easy control over EasyGate and effective monitoring of patient progress. My role also involved engaging in rigorous code reviews, problem-solving sessions, and mentoring to uphold high software development standards, contributing to EasyGate emergence as a significant game-changer in the rehabilitation sector.

ISO KINETIC (02/2021 - 05/2022)

As a senior developer, I played a pivotal role in a multidisciplinary team focused on enhancing the software capabilities of the ISO KINETIK system, a state-of-the-art device employed in various healthcare and sports settings for motion analysis and rehabilitation. My primary responsibility entailed designing and optimizing the software that accurately captures, processes, and visualizes kinematic and dynamic data during different types of exercises and tests performed on the device. Employing a robust tech stack including .NET, Python, and modern frontend technologies, I ensured the software provided precise real-time feedback, data analysis, and intuitive user interfaces for therapists and researchers. Additionally, I developed features for generating comprehensive evaluation reports, aiding in better assessment and treatment planning. Through regular collaboration with biomechanics experts and healthcare professionals, our team continually refined the software to meet the nuanced demands of different use cases, contributing significantly to the ISO KINETIK's value proposition in motion analysis and rehabilitation.

RoboTILT FES (02/2021 - 05/2022)

As a senior developer, I led a team of software engineers in developing and enhancing the RoboTILT FES's software system, aiming to bridge the gap between conventional physiotherapy methods and cutting-edge robotic rehabilitation. My responsibilities included designing the software architecture that allowed seamless integration between the robotic leg movement system, the synchronized electrotherapy module, and the user interface accessible via smartphones and tablets. Utilizing modern technologies like React for the front end and Node.js for the back end, we created an intuitive and user-friendly application that not only enables physiotherapists to monitor and control the device but also generates real-time biofeedback and comprehensive reports aiding in treatment assessment. Our collaborative efforts ensured a robust, reliable, and easily navigable system that significantly contributed to making early-stage physiotherapy more effective and engaging for both therapists and patients.

ICI Price Action Detector (04/2018 - 08/2020)

As a Senior Software Developer at a reputable trading team, I led a team to develop an advanced trading strategy leveraging price action analysis to discern reliable trade entry and exit signals without the need for traditional indicators. By meticulously analyzing OHLC bar and candlestick charts, and crafting algorithms to interpret price movements, we created a robust trading strategy framework. I spearheaded the initiative to develop a proprietary analytical software that automated the price action analysis process, enabling real-time market observation and rapid decision-making. This innovative software significantly enhanced our trading efficiency, providing a competitive edge in the high-velocity trading environment, and markedly improved our trading performance by ensuring well-informed and timely trading decisions.

🜍 PROJECTS AND CONTRIBUTIONS

Carpet Design Software (08/2015 - 02/2020)
As a Senior Software Developer, I contributed to enhancing the Booria Carpet Designer software, ensuring it met the high standards of professional carpet and rug designers. Our team integrated a comprehensive set of drawing tools and developed an extensive library of motifs and design repeats. We introduced unique features like easy drag-and-drop functionality and automatic transparency settings for selected motifs, significantly speeding up the design process. I oversaw the creation of a new Graphic User Interface, ensuring compatibility across various Windows versions. Additionally, we developed the Booria Carpet Weaver module to convert machine-made carpet designs into machine-specific production data, along with a New Border Wizard function for easy resizing and reshaping of designs. For handmade designs, we created Booria Carpet Print for multiple printing formats and Advanced Carpet Simulation for pre-production visualization. In the Pro+ edition, I led the initiative to introduce a new Background Layer option and other innovative tools, ensuring Booria Carpet Designer remained a cost-effective, high-performance, and user-friendly solution in the carpet design industry.

WordPress And Joomla Projects (08/2015 - 02/2018)
As a seasoned Software Developer, I have successfully orchestrated the development and delivery of various web and desktop-based solutions tailored to meet the unique requirements of diverse clientele. My portfolio encompasses multiple WordPress and Joomla sites, static websites, and small-scale Windows applications, each crafted with a blend of innovative design and optimized functionality. Through a collaborative approach, I ensure that every project not only aligns with the client's vision but also adheres to best industry practices and standards. My comprehensive understanding of backend and frontend technologies, paired with a meticulous attention to detail, has enabled me to provide intuitive, user-friendly solutions that enhance the online presence and operational efficiencies of my clients across different sectors.

Senatex Website (04/2015 - 08/2020)
As a proficient Software Developer, I spearheaded the design and development of the Senatex website, a robust online platform showcasing over 700 products. Through meticulous optimization and leveraging ASPX along with .Net Framework, I successfully propelled the website to rank as the number one site in the textile industry's SEO standings during that period. The project was a blend of aesthetic design, seamless user navigation, and backend efficiency, which not only enhanced user engagement but significantly amplified the online visibility of Senatex in a highly competitive market. The accomplishment underscored my ability to integrate advanced technological solutions with strategic digital marketing techniques to deliver a high-performing, industry-leading online platform.

Neon quiz-taking Software (07/2013 - 04/2015)
As a dedicated software developer, I conceptualized and executed the development of intuitive quiz-taking software in collaboration with the education administration. This innovative application, built on the sturdy foundation of .Net Framework 2 and 3.5, was embodied through a Windows Forms application, ensuring a visually appealing and user-friendly interface. The project was meticulously crafted to facilitate seamless quiz administration and interactive engagement for students, thereby streamlining the assessment process. The successful deployment of this software significantly modernized the educational assessment landscape within the jurisdiction, demonstrating my adeptness in merging elegant design with functional precision to meet the distinctive needs of the educational sector.

RCMS Windows Application (07/2013 - 04/2015)
In a bid to streamline content updates for advertisement agents, predominantly local newspapers, I spearheaded the design and development of a robust software solution. Built upon the reliable .Net Framework 2 and 3.5, the application utilized the capabilities of ASP.Net and web services to facilitate seamless content management. Users could effortlessly update or add new content via a Windows application; the software ingeniously generated the requisite images and text, subsequently uploading them to the website while ensuring the database was updated accordingly. This initiative not only optimized the content update process but also significantly enhanced the efficiency of advertising operations, reflecting my ability to devise practical solutions that harmonize with the operational cadence of the advertising domain.