

HOSSEIN NASSIRI

SOFTWARE ARCHITECT, TECHNICAL LEAD

+1 (514) 663-1792

hosseinnassiri2002@hotmail.com

<https://ca.linkedin.com/in/hosseinnassiri>

PROFILE SUMMARY

- Software Architect and Technical Lead with over 17 years of experience in software design, architecture and development with Microsoft .Net framework, managing and training development teams; in various domains such as Finance, Capital Market, Asset Management, E-Commerce.
- Extensive experience in Software Development Life Cycle, using agile methodologies (Scrum) and DevOps/Continuous Integration/Delivery (using Azure DevOps, TFS, Octopus Deploy).
- Ability to design and architect enterprise scalable multi-tenant application and large system integrations, using cloud services, messaging systems (using Azure ServiceBus, RabbitMQ), **Event-Driven Architecture**, **CQRS**, **Event Sourcing**, **MicroServices** architecture.
- Excellent knowledge and experience in **Object Oriented Analysis and Design**, Web Applications, **TDD**, **RESTful Services** (using ASP .NET Web API and ServiceStack).
- Designing applications using different database technologies: Relational Databases (SQL Server, Oracle) and NoSQL Databases: Azure Cosmos DB, Azure DocumentDB, MongoDB, ElasticSearch
- Ability to help the team and organization to produce software that makes perfect sense to the business by applying **DDD** (Domain-Driven Design).
- Design native cloud application using different Azure services (AAD, Azure AD B2C, Service Bus, AppService, Serverless Functions, Storage, CosmosDB, WebApp, WebJob)
- Deploy automatically on **Azure**, provision and configure infrastructure environments on azure (Infrastructure as Code) using ARM templates, PowerShell and PowerShell DSC. Secret Management using Azure KeyVault.
- Helping organization to move legacy applications to cloud.

EDUCATION

BSC (BAC+4) IN COMPUTER ENGINEERING (SOFTWARE) - [SHAHID BEHESHTI UNIVERSITY \(SBU\)](#), TEHRAN-IRAN

WORK EXPERIENCE

LEAD SOFTWARE DEVELOPER AT [MAPLESFS](#) (MONTREAL), 10/2016 ~ PRESENT

- Define Solution scope and plan architecture activities required to deliver it;
- Provide strategic, architectural directions and executions for various software projects;
- Contribute to technical blueprints and designs and support deliverables while following practices and standards in place;
- Define solution development activities (code, build, deploy and test) and ensure the team is following practices and standards in place;
- Document processes and workflows for build and deployment automation in detail;
- Responsible of design, architecture and development of a system to register and incorporate companies and to manage the life cycle of the company;
- Lead and collaborate with teams across the organization to gather requirements, design, develop, and improve new and existing automations. Bridge the gap between technical and non-technical colleagues;
- Responsible of design, architecture and development of a system for Anti Money Laundering (AML) and Know Your Customer (KYC) processes;

- Synchronize and migrate data from different data sources, using SSIS packages;
- Redesign the key parts of application architecture by using CQRS and Event Sourcing;
- Introduce domain-driven design to move towards microservices architecture;
- Apply event-driven architecture to implement integration at systems level;
- Perform training sessions for teams in different areas such as OOP, DDD and Data Structures;
- Create and manage build and release pipelines for automated application deployments for various projects using Azure DevOps, OctopusDeploy, PowerShell scripts;
- Run benchmarks to evaluate different algorithms;
- Run load tests with JMeter;
- Use Scrum as the software development process;
- Manage a development team of 4 developers and 1 tester;
- Provide employee performance feedback and set employee career goals.

Technical Environment: C#, .Net Core, ASP .Net Core 3.1, ASP .Net Web API, ASP .Net MVC, SQL Server, SSIS, Entity Framework Core, JMeter, MSTest, SpecFlow, Git, Azure DevOps, Octopus Deploy, Elastic Search, RabbitMQ, Power BI.

SENIOR SOFTWARE DEVELOPER / CLOUD DEVOPS ARCHITECT AT [ORCKESTRA](#) (MONTREAL), 11/2015 ~ 10/2016

Provider of an end-to-end e-commerce solution as a scalable service on the cloud.

- Developed an application to provision and configure the environment and deploy the product automatically on Azure at Cloud Management Platform department.
- Provision, Configure and Deploy the software automatically and continuously on Azure on different topologies using Azure ARM template, PowerShell Desired State Configuration (DSC), PowerShell scripts.
- Used Lean as software development process.
- Used ServiceStack for implementing REST API microservices.

Technical Environment: ARM templates, PowerShell scripts, PowerShell DSC, C#, ServiceStack, Hangfire, Git, VSTS, DocumentDB, SQL Server, xUnit

BACK-END ARCHITECT, SENIOR .NET DEVELOPER AT [ETELESOLV](#) (MONTREAL), 10/2014 ~ 11/2015

A privately-owned company, with software product Cimpl for IT and telecom asset and expense management.

- Worked at R&D department (23 members) in the Back-End team using Scrum framework;
- Define Solution scope and plan architecture activities required to deliver it;
- Contribute to technical blueprints and designs and support deliverables while following practices and standards in place;
- Continuous Integration/Deployment using Jenkins with Git as a distributed source control;
- Creating a multi-tenant, scalable SaaS / PaaS product by designing and implementing a RESTful API;
- Introduced CQRS and Event Sourcing as architectural patterns for the backbone architecture and managed and organized implementing it into the platform;
- MongoDB and PostgreSQL as read databases;

Technical Environment: C#, ASP .Net Web API, OData, Autofac, Git, Jenkins, MongoDB, PostgreSQL, SpecFlow, NUnit

SOFTWARE ARCHITECT AND SENIOR DEVELOPER AT [CSDI \(CENTRAL SECURITIES DEPOSITORY OF IRAN\)](#) (TEHRAN, IRAN), 07/2007 ~ 08/2014

CSDI is a public joint-stock company for Registration, transfer of securities ownership, clearing and settlements for Tehran Stock Exchange.

Applied **DOMAIN-DRIVEN DESIGN** approach in most projects to adapt better and faster to Capital Market business.

Helped the team to use **TDD** and **AUTOMATED TESTING** in all projects.

Technical Environment: ASP .NET MVC 5.0, JQuery, Knockout, CSS, Bootstrap CSS framework, C#, SQL Server 2012, Entity Framework, dependency injection using Unity Framework, WCF, WPF, MSTest, Moq, ASP .NET WebForms

Some key projects that I accomplished as an architect / developer and leading 3 to 6 developers:

- **CLEARING AUTOMATION SYSTEM:** An application for performing broker-based automated money clearing for Tehran Stock Exchange with SOA architecture for integrating with Core Banking Systems and Trade and Post-Trade Engines
- **SETTLEMENT GUARANTEE FUND SYSTEM:** An application for managing Settlement Guarantee Fund and defaulted brokers for Tehran Stock Exchange
- **INVESTOR PORTFOLIO SYSTEM:** An application to view portfolios of Iranian investors, the first and the only application for this purpose in IRAN which automatically import data from legacy system (DB2 database under AS/400 mainframe)
- **FUTURE POST-TRADE SYSTEM:** An application for Clearing & Settlement of futures trades in Clearing House of Tehran Capital Market, fully integrated with other enterprise systems using SOA architecture

SOFTWARE ARCHITECT AND SENIOR DEVELOPER AT [AFRANET](#) (TEHRAN, IRAN), 04/2007 ~ 07/2007

Iranian ISP which provides Internet Access, Telephony services, E-commerce, Data Center provision services.

Held the role of team lead in a team of 5 developers including 2 Senior .Net Developers, 1 DB Designer, 2 UI Designer.

AZAD UNIVERSITY CONCOURS INSCRIPTION SYSTEM: A web-based system with more than 800,000 users, successfully used for registration of National Azad University Examination of Iran.

Technical Environment: ASP .NET 2.0 and SQL Server 2005, performed load tests with VSTS

SOFTWARE DEVELOPER AND ARCHITECT AT [TOORIN](#) (TEHRAN, IRAN), 08/2005 ~ 04/2007

OFFICE AUTOMATION SYSTEM

Held the role of team lead in a team of 5 developers, developed a web application for transferring and archiving letters and documents via internet/intranet with Role Based Access Control.

Technical Environment: ASP .NET 1.1, C#, SQL Server 2000, Oracle 9i/10g

OTHER EXPERIENCES

SENIOR WEB DEVELOPER (REMOTELY AS A FREELANCER) AT [NET-ICT](#) (GENT, BELGIUM), 02/2012 ~ 01/2014

Net-ICT provides ICT services and creates websites and webshops for organizations, using Umbraco, NopCommerce, ASP .Net MVC, C#, Entity Framework, SQL Server 2008, CSS, JavaScript.

WEB DEVELOPER AT [CHN \(CULTURAL AND HERITAGE NEWS AGENCY\)](#) (TEHRAN, IRAN), 04/2005 ~ 08/2005

CHN WEBSITE: A website for CHN news agency, developed with ASP .NET 1.1, C# and SQL Server 2000

BUSINESS SYSTEM ANALYST / INFORMATION TECHNOLOGY CONSULTANT AT [METRA](#) (TEHRAN, IRAN), 10/2002 ~ 04/2005

- Analyzed technical requirements, overall design and architecture, and project supervision.

LANGUAGES

- English: Writing, speaking, listening (fluent)
- French: Writing, speaking, listening