

# Kia Panahi Rad

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## SKILLS

### Languages

*Proficient in:* C#, JavaScript, Typescript, HTML, CSS, T-SQL

*Familiar with:* Go, Python, C, C++

### Technologies & Frameworks

*Back-End:* ASP.NET (Core/MVC/Web API/SignalR), WCF, WPF, Flask, Django

*Front-End:* HTML5, CSS3, SASS, WebAssembly, Angular, React, jQuery, Electron, Bootstrap

*ORMs:* Entity Framework Core, Entity Framework, NHibernate

*Databases:* MS SQL, Oracle, MongoDB, Redis, Elasticsearch

*Platforms:* Windows, Mac OS, Linux (RedHat Enterprise, CentOS, Fedora, Debian, Ubuntu, Kali)

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## EXPERIENCE

### Senior Software Engineer / Technical Lead (Jun 2016 – Present)

[FanapPlus \(formerly Appson\)](#)

My focus is on designing and developing horizontally scalable services with high throughput and low maintenance cost. These services are used as a ground for business developers to easily develop their business needs without having to think about their basic needs such as authentication and authorization, subscription engines, large scale credit/score calculations, high throughput messaging solutions, fairness, concurrency issues and lots of other headaches businesses usually avoid addressing the right way.

We contribute to Open Source Community by developing and open sourcing a large number of our services (see Clay-One on [GitHub](#) and [Medium](#) and Appson on [GitHub](#)) as well as contributing to famous projects such as [MetricBeat](#).

Some of the projects and platforms that I've been working on are as follows:

**GHASEDAK:** A highly scalable, efficient, messaging platform capable of delivering up to 5000 messages per second. The solution is based on micro-service architecture and relies heavily on asynchronous messaging and event-sourcing. Technologies used in the platform include Redis, Apache Kafka, DotNet Core, and MongoDB.

**PIQO:** A full-featured payment solution capable of handling multiple user subscriptions and subscription plans and can charge them through many payment gateways including but not limited to DCB, DirectDebit, IPG/MPG. Piqo is architected as a multi-instance service and is utilizing MSSQL Server w/ Entity Framework, MongoDB, ASP.NET WebApi, Caching, etc.

**TESSERACT:** A subscription engine designed to handle a massive amount of meta-data (tags) surrounding an identity with lightning-fast search capability and full-featured searching DSL. On a single node, it can store and query more than 40,000,000 identities and their tags within milliseconds. It's built on top of Mongo, Redis and Elasticsearch as its data stores and is using sophisticated background job scheduling/processing system which we built ourselves, called Nebula.

**NEBULA:** A scalable reliable background job scheduler/processor capable of delivering and accepting jobs via multiple channels including but not limited to HTTP endpoints, Apache Kafka topics, Redis queues. It also provides job execution status and control over pausing, canceling, flushing and stopping a job. Using another in-house build identity provider service, it also supports simple to complex ACL scenarios.

**SEJEL:** An identity solution capable of providing any system with world-standard authentication mechanisms. It leverages JWT standard for authentication token handling and can be easily used alongside OAuth solutions. Sejel is heavily load tested and is designed so that it could be horizontally scaled on the fly to serve tens of thousands of requests per second. It also provides the application developer/end-user with multiple authentication factors including but not limited to two-factor SMS authentication, Email/Password authentication, Google account authentication, etc.

### Software Engineer (Sep 2014 – Apr 2016)

[Nomatec Inc.](#)

Lead programmer of the financial module of the ERP solution. The team consisted of 5 members and was following SCRUM agile principles.

Developed a web framework based on AngularJS to facilitate building complex business forms and accelerate the development process of application modules with focus on cross-cut concerns like logging, security etc.

Supervised the development process of framework's real-time communications module.

Developed numerous multi-purpose web components based on cutting edge technologies like Web Components and angular directives. These components were often responsible for handling huge amount of data while preserving real-time performance and data integrity among lots of simultaneous interactions.

**Software Developer (Mar 2013 – Aug 2014)**

[Tosan Intelligent Data Miners](#)

Developed the company's web framework versions 2 and 3.  
Integrated ASP.NET Web API and client-side rich application development environment.  
Assessed and vulnerability proofed applications and modules both internally and externally.  
Developed a proprietary time attendance application for the company employees  
Part of the IBI project team working on it both abroad and in Iran.

**BI Developer and analyst (Jan 2009 – Mar 2013)**

[Tosan Intelligent Data Miners](#)

Generated interactive and static reports capable of being used by data analyzing applications as well as management dashboards and interactive web interfaces.  
Analyzed and implemented multidimensional analytical data cubes. These solutions are used on a daily basis around Iran and gather data for further processing in banking strategies.

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EDUCATION

**Amirkabir University of Technology (Tehran Polytechnic)**  
Tehran, Iran  
B.Sc. Computer Science

Sep 2006 – Aug 2009