Babak K. Shandiz *November 29, 1988*

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Summary

I started programming at an early age. This provided me with the opportunity to experience some influential platforms/technologies, like *Commodore 64* or *Sincalir Spectrum* and rather modern ones like *VB6* or *Turbo C++*. I've been using *C#* and *.NET* since their early days, and soon found myself being passionate about *Object-Oriented Programming* and began exploring books and articles (mostly on *The Code Project* then) on design patterns, application architecture, clean coding and experimenting ideas and self-thoughts.

In 2008, relational databases attracted my attention more than before. Since then, I occasionally read on database design and other concepts on the topic and try to make a point of following standards on my projects.

Also, I've hands on experience on leveraging *NoSQL* or *key/value pair* databases.

Thanks to my past and the wide range of technologies that I've explored, I've developed a good sense of judgment about current/future platforms/technologies and beware of those mainstream trends that recreate old mistakes/lessons or those may come to an end in a near future.

Currently, I'm leading a *.NET* development team at *Part Software Group*. Also, I actively provide consult to governmental or personal software projects. In my spare time, I'm a full-stack web/*Windows* developer who is passionate about *TypeScript* and occasionally contributes to open-source projects.

Experience

RayanShop   Mashhad, IRAN
RayanShop was a pioneer online-shopping startup in Iran, long before well-known ones like *DigiKala*.

Full-Stack Developer   *2002 – 2004*
Developing back-end (*Classic ASP*) and front-end (vanilla *JavaScript*).

Mehr Hospital   Mashhad, IRAN

Architect & Full-Stack Developer (Contractor)   *2009 – 2010*
Designing and implementing a laboratory HR management tool using *.NET* and *SQL Server*.

Ferdowsi University of Mashhad (FUM)   Mashhad, IRAN

Architect & Full-Stack Developer   *2010 – 2011*
Designing and implementing the *National Bilateral Energy Market* web application using *ASP .NET* and *SQL Server*, as B.Sc. graduation project.

Mashhad Urban Railway Operation company (MUROC)   Mashhad, IRAN

Architect & Developer   *Mar '15 – Mar '17*
The project was to implement an integrated electro-mechanical simulation system to be used in further energy optimization studies. The platform was successfully realized, currently known as *SITRAX*.

Khorasan Regional Electric Company (KREC)   Mashhad, IRAN
KREC is a governmental company that manages and maintaines regional power transmission grid.

Researcher   *Nov '14 – Sep '15*
Research on *REF* protection schemes in transmission gird.

Researcher & Full-Stack Developer (Military Service for Elites)   *June '15 – Aug '17*
The research topic was to find the optimal solution for power transformer overloading dilemma. The implementation phase, was to develop a software platform that delivers research results as automated routines and user-friendly interfaces.

IT Consultant   *June '19 – present*
The project is an enterprise solution that covers several aspects of *Preventive Maintenance (PM)* routine, done on high-voltage substations, to remove paperworks and ultimately automate the current workflow. The project consists of mobile user interfaces, core function as back-end and relational databases.

Part Software Group   Mashhad, IRAN
Part is a *Fintech* company, developing financial solutions in stock market related and banking fields. The company also aims to provide basic infrastructure services as a rich service cloud.

Back-End Developer   *Sep '18 – Dec '18*
Back-end developer at *Part*'s infrastructure services development team (known as *Public Services*) with *nodejs* as platform. The services are including (but not limited to): authentication, authorization, access control, user profile, messaging, and file storage.

Lead Back-End Developer	*Dec '18 – Aug '19*

At infrastructure services development team (See above).

Lead Back-End Developer	*Aug '19 – present*

At *.NET* development team, developing *Legal Tech* business web services.

Open Source Contributions

Microsoft VS Code (`microsoft/vscode`)

Submitted PR (accepted)	*2019*

In versions: 1.35.0 & 1.36.0.

TypeScript (`microsoft/typescript`)

Submitted suggestions	*2019*

Zarinpal Service Library (`babakks/zarinpal-ts`)

Repository Owner	*2018 – present*

Developed a *nodejs* package written in *TypeScript* that wraps *Zarinpal* payment services in an OOP paradigm.

Please refer to my GitHub profile for more details.

Education

Ferdowsi University of Mashhad (FUM)	Mashhad, IRAN
M.Sc. in Electric Power Engineering	*2011 – 2014*

Focused on high voltage power transformer protection schemes.

FUM	Mashhad, IRAN
B.Sc. in Electric Power Engineering	*2007 – 2011*

Implemented *National Bilateral Energy Market* web application using *ASP .NET* and *SQL Server*, as graduation project.

Malek-e-Ashtar Pre-University School	Mashhad, IRAN
Diploma in Mathematics & Physics Science	*2006 – 2007*

Honors & Awards

Ranked 1st among fellow students (B.Sc., GPA: 18.98/20.)	2011
Ranked 1st among fellow students (M.Sc., GPA: 19.17/20.)	2014
Served military service as academic elite.	2015

Skills

Software design, concepts & protocols

Object oriented programming, design patterns, SOLID rules, loose/tight coupling concerns, dependency injection, inversion of control, unit and integration tests, databases, web services, SOA, REST, microservices.

Software implementation & tools

Software implementation	*C#, TypeScript/JavaScript*; Familiar with *C/C++* and *Java*
Unit testing frameworks and tools	*NUnit, MSTest, Moq, mocha, jest, chai, sinon*
Web front-end technologies	*HTML+CSS,jQuery, Aurelia, Vue.js*
Web back-end technologies	*nodejs, ASP .NET MVC/Web API, ASP .NET Core*
Databases	*SQL Server, Postgres* (beginner), *Access, MongoDB, Redis*
Source control and interfaces	*GIT, GitLab, GitHub*
Linux shells	*bash* (minimal)
Containerization/virtualization	*docker*
Miscellaneous	*Postman*, LaTeX, *RegEx, MATLAB*

Natural languages: Persian *(mother tongue)*, English *(full professional proficiency)*, Arabic *(limited)*.

Interests

Non-exhaustive and in alphabetical order: Art, books, graphics, mathematics, music, open source projects, painting, problem solving, riddles, software engineering, studying, teaching, video games, writing.