

# Andrew Kovalenko

## Principal Software Engineer

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## EXPERIENCE

- 14 years in software development, 4 years as software architect / technical lead
- Proven record of delivering successful and scalable software products

## SKILLS

*Languages:* **JavaScript/TypeScript, HTML5, CSS3, SCSS, Go, C#, Elixir, Ruby, Swift, SQL, Java, Node.js, .NET,**

*Platforms:* **AWS, Unix, iOS, Android**

*Frameworks:* **React, React Native, Redux, GraphQL, REST, RxJs, Restify, ASP.NET MVC, Apache Cordova, Various ORMs, Backbone.js, Knockout.js, jQuery**

*Tools:* **Terraform, Kubernetes, Docker, Webpack, Rollup, ESLint, Jest, Mocha, XO, Ava,**

*Methodologies:* **Gulp, Grunt, Yeoman, Git**

*Leadership:* **Agile Scrum, Kanban, Waterfall**  
**Business Focus, Risk Assessment, System design and Architecture, Problem Solving, Mentoring, Recruiting, Planning**

## SUMMARY

I'm a tech geek and [STEM](#) evangelist with a strong believe that there is nothing impossible for a true technologist. I have got my bachelor's degree in 2006 and graduated with **master's degree in Computer Science** in 2009. Programming is not only my job it is also my hobby. Despite 14 years of experience in software development I don't stop learning new tools and technologies but at the same time I pay a lot of attention to fundamental software design principles like [SOLID](#), [DRY](#), [KISS](#) and [design patterns](#). On all my projects I follow software architectural approaches such as [N-tier Hexagonal Architecture](#), [CQRS](#) and [Microservice Architecture](#) which in combination with "clean code" habits allow me to keep software solutions well-structured and easy **scalable**.

I prefer to deeply understand programming languages and platforms before start using them for solving different problems rather than blindly follow a "hype".

I always pay attention to **performance** and **reliability** of my software solutions as well as **readability of the code** I write. This allows me to identify and solve a good number of issues on early development stage preventing them from leaking on production environment.

I'm a **team player**. I pay a lot of attention to open communication and healthy atmosphere in the team. My philosophy as a tech leader is **every team member's opinion is equally valuable** regardless of member's title and role on the team. I enjoy being a **mentor** on both technical and career growth aspects but at the same time I try to learn from my teammates as well. [Pair programming](#), technical design discussions and **whiteboarding** sessions are common practices in the team under my lead.

## WORK HISTORY

### Microsoft

October 2021 – now

**Project:** Office 365 Search  
**Role:** Principal Software Engineer  
**Technologies:** Big Data, Proprietary Cloud Technologies, Microservices at large scale

**Responsibilities:** I lead multiple teams on the way to deliver cloud-based enterprise search solution operating on a data volume 30% bigger than Google Web Search. We've built cost and performance efficient solution to store and search through enormously big amount of data. Optimized usage of this solution on Microsoft cloud at the world-wide scale. Team under my lead has built and successfully integrated set of solution to automatically scale our search solution and automatically maintain optimal throughput in a safe and cost-efficient way.

### Sage

September 2020 – October 2021

**Project:** AI-powered experiences (<https://time.sage.com>)  
**Role:** Tech Lead / Software Architect  
**Technologies:** Node.js, Go, AWS, React / React Native, Typescript, Unsupervised Learning

**Responsibilities:** **Lead an engineering team** which introduced AI-driven experiences into multiple Sage products. This team under my lead successfully delivered a first AI-powered application for Sage customers. I drove re-architecting of the app so it can be hosted on **cloud platforms** and easily scaled as needed. I led introduction of **analytics, health monitoring** and **feature management** into the app. I redesigned integration with other Sage products which significantly improved application performance and stability. In addition to being a **mentor** for my team-mates I scheduled a series of "brown bag"s to educate engineering team about trending technologies and approaches in software development and the ways we can benefit from adopting those.

### ServiceNow 2020

September 2018 – June

**Project:** ServiceNow Platform Search  
**Role:** Tech Lead / Software Architect  
**Technologies:** Virtual DOM, Web Components, JavaScript / ES6, GraphQL, Java, MySQL, Search Algorithms, Named-Entity recognition with Machine Learning

**Responsibilities:** **Led an engineering team** responsible for creating next generation search experience on ServiceNow platform. **Drove architectural discussions**, coordinate cross-team development efforts, create technical design, choose technologies and tools. Develop core components of the new search system, mentor engineers, conduct code reviews and provide technical support to ServiceNow customers. Define priorities and ways to deliver new features, run Agile process meetings and interview new candidates.

## Intuit

December 2014 – August 2018

**Project:** TurboTax Online (<https://turbotax.intuit.com>)  
**Role:** Tech Lead  
**Technologies:** Node.js, REST, React, React Native, Redux, HTML5, CSS3, JavaScript / ES6, Mocha  
**Responsibilities:** **Led development** of innovative customer experiences as well as core modules of the product. Drove technical design discussions, **chose technologies/tools** and contributed to moving TurboTax Online product to cloud-based platform and switching from legacy front-end solutions to React.

**Project:** Fuego framework  
**Role:** Senior Software Engineer  
**Technologies:** React, React Native, HTML5, CSS3, JavaScript / ES6, Node.js, Jest  
**Responsibilities:** Contributed to development of “semantic UI” framework for Web, iOS and Android platforms. **Drove architectural discussions**, chose technologies and **led development** of mobile versions of the framework. Moved existing customer experiences to a new framework.

## UIT

September 2013 – January 2016

**Project:** Mobin  
**Role:** Software Architect  
**Technologies:** Node.js, HAPI, Angular.js, Gulp, HTML5, CSS3, Less, PhoneGap/Cordova  
**Responsibilities:** **Created technical design and architecture.** Developed core functionality of the application. Led development team, acted as a mentor for engineers, drove Agile process. Was responsible for interviewing candidates for engineering positions.

**Project:** Order tracker  
**Role:** Software Architect  
**Technologies:** Node.js, HAPI, Angular.js, Gulp, HTML5, CSS3, Less  
**Responsibilities:** Led development of the application according to provided technical design. Drove meetings with customers, was responsible for identifying customer product requirements and translating them to technical tasks.

## Tillster

May 2014 - December 2014

**Project:** Burger King Mobile App (<https://www.bk.com/app>)  
**Role:** Tech Lead  
**Technologies:** Cordova, Angular.js, HTML5, CSS3, SCSS, Grunt, Yeoman  
**Responsibilities:** Created technical design and built architecture of a new platform for hybrid mobile applications. Developed framework which allows to generate mobile applications and reuse generated modules, led development of new platform and applications based on it. Created infrastructure for continuous integration and deployment of mobile applications.

## CTI

June 2013 – April 2014

**Project:** PBS  
**Role:** Senior Software Engineer  
**Technologies:** ASP.NET MVC, HTML/CSS, JavaScript, Knockout.js, Sammy.js, Entity Framework, MS SQL, AutoFac dependency injection, AutoMapper  
**Responsibilities:** Developed core features of the application, took active part in making technical design decisions, mentored teammates.

## UA Rank

Nov 2010 – May 2013

**Project:** MMIT  
**Role:** Staff Software Engineer  
**Technologies:** ASP.NET MVC, HTML/CSS, JavaScript, Backbone.js, Dapper ORM, MS SQL, AutoFac dependency injection, AutoMapper, CQRS  
**Responsibilities:** Took active part in development of internal CQRS framework, developed reporting and analytics modules, integrated project with payment systems.

**Project:** Social Putts (<https://socialputts.com/>)  
**Role:** Senior Software Engineer  
**Technologies:** ASP.NET MVC, HTML/CSS, JavaScript, Knockout.js, Entity Framework, MS SQL, AutoFac dependency injection, AutoMapper, N-tier  
**Responsibilities:** Led development, developed architecture and acted as a team manager of this project.

## Khartep

May 2008 – Oct 2010

**Project:** ESMS  
**Role:** Software Engineer  
**Technologies:** C++, WinForms, Oracle DBMS, Oracle RAC  
**Responsibilities:** Worked as a software developer of a high-load, real-time automated management system of a Ukrainian electrical network.

## TEC-3

Aug 2007 – Apr 2008

**Project:** WHeat  
**Role:** Software Engineer  
**Technologies:** C++/.NET C#, WinForms, Oracle DBMS  
**Responsibilities:** Worked as a software developer of a real-time data analytics system for electrical generators management.

## EDUCATION

2002 – 2009  
**Graduated as:** Ukrainian National Airspace University  
**Master of Computer Science**