info@wiqbit.com / +1 (833) 294-7248 / www.wiqbit.com

26 years of experience delivering enterprise solutions

Since 1998 we've been helping small and medium companies with sometimes only one employee all the way up to Fortune companies with hundreds of thousands of employees. Our clients service markets including accounting, advertising, construction, finance, healthcare, insurance, lending, publishing, real estate, and sport.

Regardless of company size or market, we dig deep to understand the requirements and strive to deliver the optimal solution on budget and on time.

W

wiq

For something to be brilliant, pleasing, or superb.

B

bit

A set of actions or ideas associated with a specific group or activity.

Our mission is to realize brilliant, pleasing, or superb ideas by applying a set of calculated and purposeful actions.

Thus, our diamond logo. It contains the letter “w” and other characters used in code. Do you see them? ☻

A.I. Development

Gain business intelligence from your data. Train on historical data, then predict or recognize future data.

Mobile Development

Bring your ideas to the growing market of people who use smartphones, tablets, and wearables.

Website Development

Engage with your audience to sell your products and services, or just share and exchange information.

Development and support is in our DNA. We love to agnostically leverage appropriate technologies to create the most secure, performant, and maintainable solutions on the planet.

Custom Development

Build cross-platform APIs, apps, and other services that run on desktops, laptops, and servers.

Database Support

Keep your databases running at their maximum potential and protect them to ensure your business continuity.

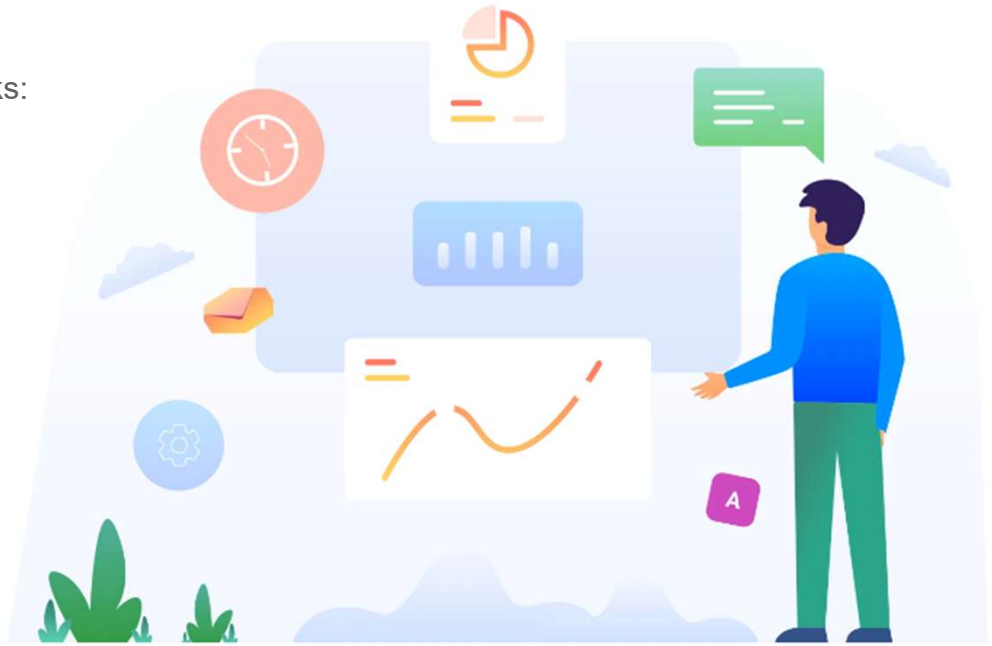
Cloud Support

Migrate your on-prem infrastructure to the cloud, or enhance and maintain your existing cloud.

Artificial Intelligence Development

Gain business intelligence from your data. Train on historical data, then predict or recognize future data. We like to use highly performant C++ to classify and cluster data at high velocity with the following neural networks:

- Convolutional
- Long Short-Term
- Deconvolutional
- Modular
- Feed Forward
- Perceptron
- Generative Adversarial
- Recurrent



A Few Use Cases for Your Artificial Intelligence

Data Mining
Search data for patterns and trends, then turn those findings into business insights and predictions.

Finance
Forecast sales, attrition, costs, and other metrics based on previously observed values.

Geoscience
Advance coastal engineering, geomorphology, hydrology, and ocean modeling.

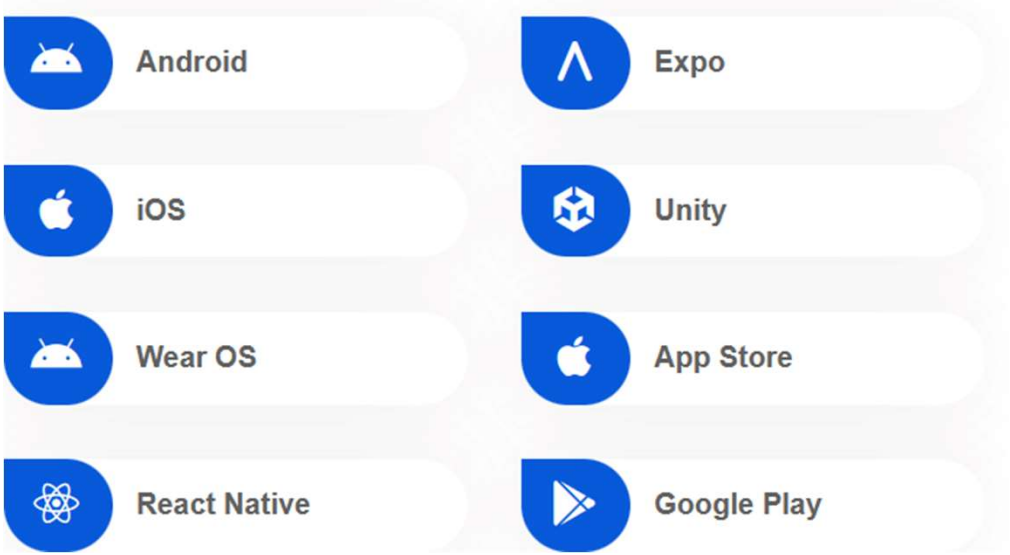
Medical Diagnosis
Reduce workload of physicians. Decrease errors and time in diagnosis. Predict and detect disease.

Pattern Recognition
Enable face and radar recognition, object recognition, and signal classification.

Quantum Chemistry
Reduce computational cost to explain natural phenomena on the atomistic level.

Mobile Development

Bring your ideas to the growing market of people who use smart phones, tablets, and wearables. We like to use React Native with Expo and Unity to build apps for Android and iOS, and Android Studio to build apps for Wear OS.



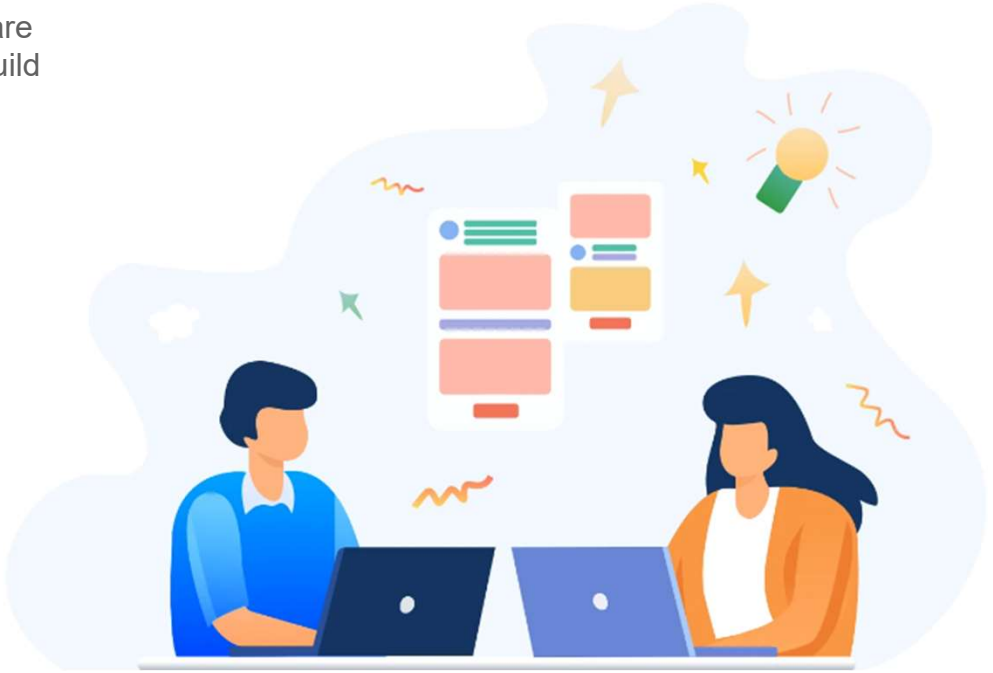
Android and iOS: React Native is an open-source framework created by Meta. It is used by many companies such as Facebook, Microsoft, and Shopify to write one codebase that runs on Android and iOS. Expo is an SDK for React Native and provides a rich set of packages that greatly simplify interactions with audio/video, cameras, maps, notifications, etc. Unity is a game engine that we can plug in to React Native for immersive 2D and 3D experiences. The combination of React Native with Expo and Unity significantly reduces time to market, helps with return on investment, and keeps technical debt to a minimum.

Wear OS: Android Studio is Google's integrated development environment (IDE) that is designed specifically for Android development. Unfortunately, this is a separate codebase since we use languages like C++ and Java, and because the user experience is so distinctive. It helps us build apps that target Wear OS and run on wearables such as smart watches. A wearable app pairs with your smart phone/tablet app and provides a subset of features and/or completely unique features. The use of Android Studio helps you provide your app to the broadest range of wearable manufacturers, from Fossil and Samsung to Louis Vuitton and Tag Heuer.

Website Development

Engage with your audience to sell your products and services, or just share and exchange information. We like to use ASP.NET Core and React to build websites. Our website was created with ASP.NET Core!

- HTML 5
- ASP.NET Core
- CSS 3
- React
- JavaScript
- Node.js



A Few Use Cases for Your Website

Blog
Tell your brand story, increase brand awareness, and use affiliate marketing to earn money.

News
Offer readers news articles about one or more subjects and earn money by selling subscriptions.

Brochure
Tell your brand story, describe your services, engage with customers, and schedule appointments.

Resume or CV
Show your education, career experience, and even your portfolio to potential customers and employers.

E-Commerce
Showcase your products and allow customers to purchase them via payment methods like card and wallet.

Teaching
Leverage your experience and expertise in a particular subject matter and bring education to the masses.

Custom Development

Build cross-platform APIs, apps, and other services that run on desktops, laptops, and servers. We like to use C++, C#, and Node.js to build custom software.

- macOS
- C++
- Linux
- C#
- Windows
- Node.js

APIs: We typically write APIs so that applications can communicate with one another. An API surfaces business functions such as the addition, search, update, and deletion of data. Consumers of an API might include your artificial intelligence, mobile app, website, custom development, customers, partners, and vendors. Using Node.js, C#, and C++ helps us create increasingly performant and scalable APIs complete with authentication, authorization, documentation, logging, and rate limiting.

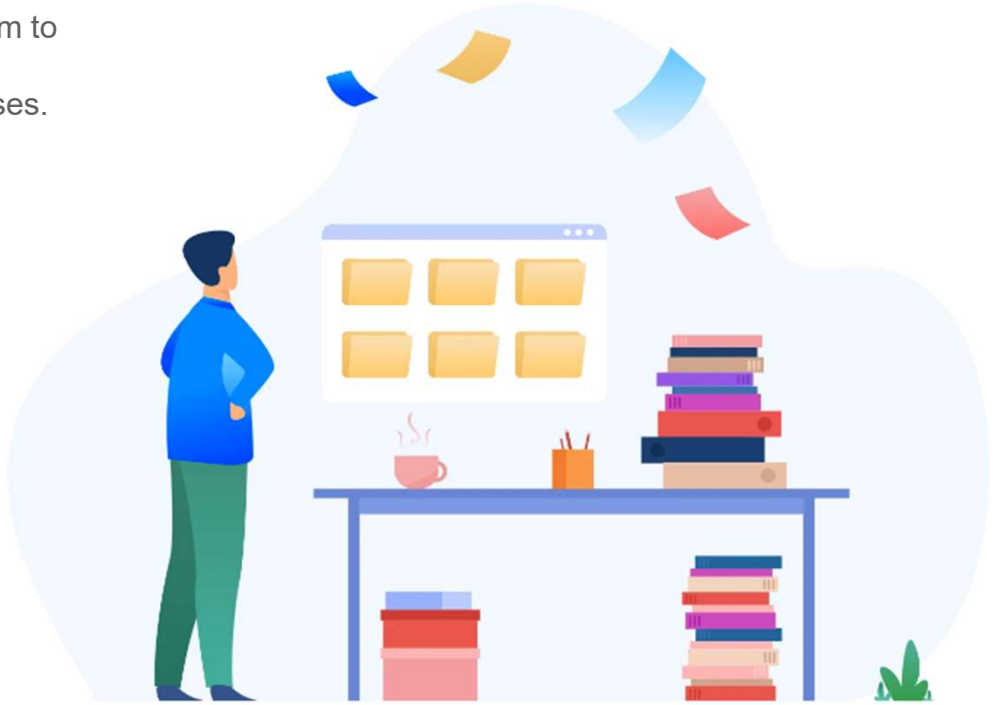
Apps: Most of us use apps every day. They include our favorite calendar, email, Internet browser, spreadsheet, and word processor programs. We typically download apps from a Website or a store. It is critical that these apps run on the myriad of combinations of Macs and PCs using operating systems like Linux, macOS, and Windows. Using C# and C++ helps us create increasingly cross-platform apps complete with installers, license management, automatic updates, and uninstallers.

Other Services: Some services run behind the scenes to automate frequent or mundane tasks. Often, we refer to these as jobs. Sometimes, we affectionately refer to these as "Mini-[insert first name here]s" (e.g., Mini-Bobs). One example is an Azure function that wakes up every minute to send emails from a queue. Another example is a Windows service that wakes up at midnight and FTPs a file to a partner. Using C# and C++ helps us create increasingly performant and scalable services complete with installers (when applicable), logging, and uninstallers (when applicable).

Database Support

Keep your databases running at their maximum potential and protect them to ensure your business continuity. We like to use C# to automate the maintenance and monitoring of SQL Server, MySQL, and Oracle databases.

- SQL Server
- MySQL
- Oracle
- C#
- Backups
- Indices
- Jobs
- Long Queries



Backups: Hardware failures happen; Imagine a faulty disk that leaves the database files corrupted. Human errors happen; Imagine forgetting a WHERE clause and updating or deleting all the records in a table. In situations like these, it is imperative to minimize data loss and to minimize the time it takes for the business to resume operations. Additionally, like a fire drill, it is necessary to practice disaster recovery for when it happens (and it will).

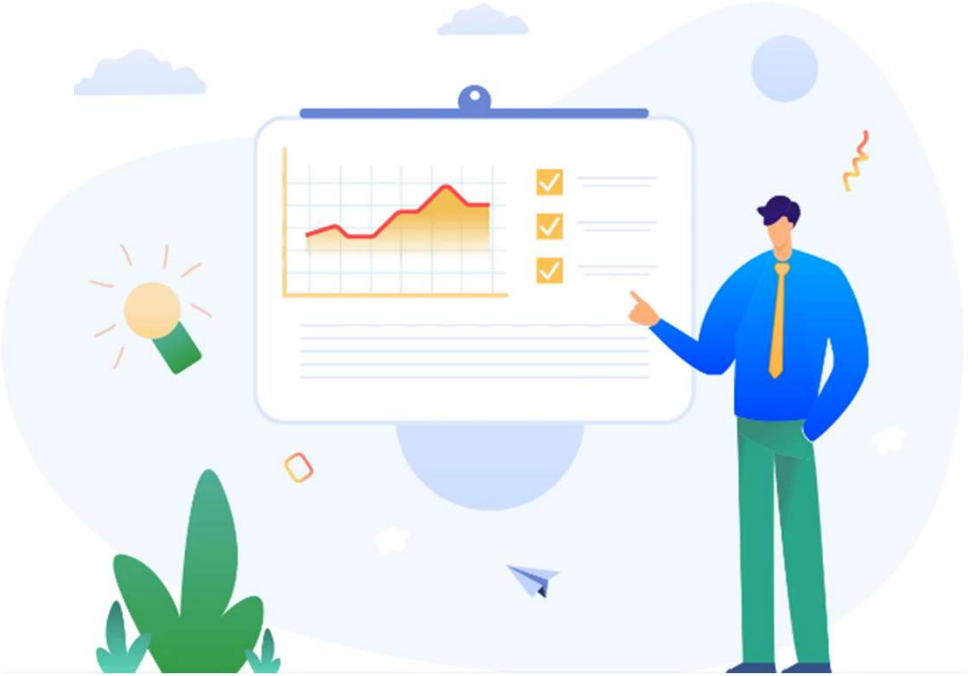
Indices: Let's say you have a printed textbook, and you need to find all references to a particular topic. You can either read through the entire text or use the index to find the relevant page numbers. Database indices essentially work the same way. However, using them incorrectly can be counter-productive and result in degraded performance. Additionally, over time, they may become fragmented and increasingly inefficient.

Jobs: Jobs allow us to automate the execution of repetitive tasks such as checking database integrity, running a query, or shrinking database files, and perform those tasks on a schedule. Sometimes jobs fail. We can either spend a lot of time checking on them or, ideally, receive a notification when there is a problem.

Cloud Support

Migrate your on-prem infrastructure to the cloud or enhance and maintain your existing cloud. We like to use AWS, Azure, and GCP to host app services, functions, etc.

- AWS
- App Services
- Azure
- Databases
- GCP
- Functions



Consistency: Most software projects need at least three environments: 1) A development environment to design and build, 2) A QA environment to test, and 3) A production environment to deploy the application to its end users. Differences in the configuration of these environments, especially at the networking layer, can lead to challenges when promoting from one environment to the next. None of us want to be in that situation on release day!

Cost: Services in the cloud are typically billed based on performance and availability requirements. A few of the resources that factor into the cost are compute, memory, operations per second, and storage space. Naturally, a production environment will require the highest performance and availability, a QA environment will require significantly less performance and availability, and a development will require even less performance and availability.

Security: We live in a world in which the daily news is filled with headlines about the breaching of infrastructure, the leaking of personally identifiable information (PII), and the consequence of paying significant compensation. Incorrectly provisioning app services, databases, functions, or networking in the cloud can expose business-critical applications and private/sensitive data to mischievous or nefarious actors and even state-sponsored cyber attacks.