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# IT & DIGITAL MARKET IN UKRAINE

FLANDERS INVESTMENT & TRADE MARKET SURVEY

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# IT & DIGITAL MARKET IN UKRAINE

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**Tatiana Korotich**

Trade Commissioner

Représentant la Wallonie, la Flandre et la Région Bruxelles-Capitale

Trade Offices of Embassy of Belgium

6a, Leontovicha Street, office 27

01030 Kiev - UKRAINE

T: +380 44 239 18 46 | [Kiev@awex-wallonia.com](mailto:Kiev@awex-wallonia.com)

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## 2. UKRAINIAN IT TALENTS POOL OVERVIEW: SKILLS & SALARIES

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It's impossible to talk about the IT market of Ukraine without mentioning its driving force – tech talents. While there is a deficit in IT specialists throughout the world, Ukraine is flourishing with its growing number of tech graduates – bringing up more than 16,000 new coders each year. According to BRDO<sup>6</sup>, these figures are expected to increase to 37,400 IT specialists each year by 2030. The largest community of developers in Ukraine, DOU, states that there are about [200,000 Ukrainian tech professionals](https://dou.ua/lenta/articles/jobs-and-trends-2019/rofessionals)<sup>7</sup>, and 67,000 of them work in the Top 50 largest Ukrainian companies. In terms of talent dislocation, there are three Ukrainian cities with the largest number of software developers – Kyiv (42%), Lviv (15%), and Kharkiv (12%), making up 69% of all IT professionals of the country.

## 3. UKRAINIAN DEVELOPERS' HARD AND SOFT SKILLS

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What really makes the Ukrainian IT developers exceptional is their high level of tech education. It provides students with deep knowledge and integral skills, which allows graduates to be flexible enough to adjust to fast-pacing tech trends. In terms of programming languages, [JavaScript](#)<sup>8</sup> is considered number one in the Ukrainian IT community. Recently, Java (14.7%), C# (14.3), Python (12.1%), and TypeScript (6.9%) have been gaining significant popularity among tech specialists as well. Living in an environment where IT is constantly developing provides Ukrainian software developers with lots of opportunities for gaining multilateral expertise.

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<sup>6</sup> <https://brdo.com.ua/top/do-2024-roku-kilkist-it-fahivtsiv-v-ukrayini-zroste-na-23-doslidzhennya-brdo/>

<sup>7</sup> <https://dou.ua/lenta/articles/jobs-and-trends-2019/>

<sup>8</sup> <https://dou.ua/lenta/articles/language-rating-jan-2021/>

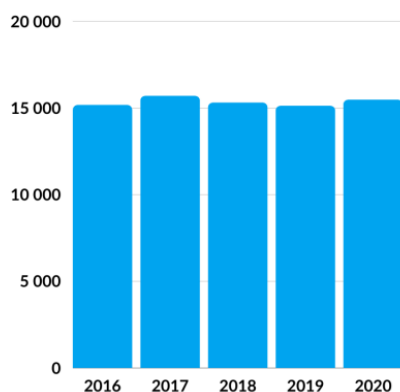


## 4. THE KEY STATISTICS OF THE UKRAINIAN IT MARKET

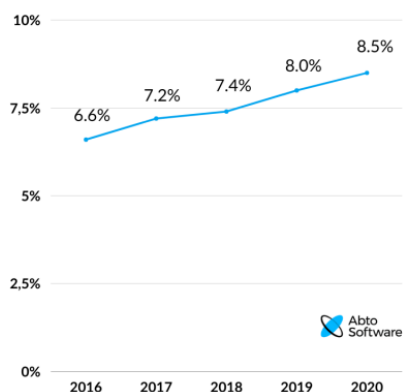
### Education level

First, let's take a look at higher IT education tendencies inside the country.

**IT specialities gradutors with a bachelor degree, 2016-2020**



**The share of graduates of IT specialities among other bachelors, 2016-2020**



Source: Better regulation Delivery Office (BRDO)

The number of bachelor's graduates has been stable over the last five years with an [average of 16.2 thousand per year](#)<sup>9</sup>. Despite the growing popularity of the profession, we can't see a steep increase in the amount of new IT professionals. The reason is quite simple. The General number of all graduates in the country in 2020 was only 191 thousand, which is 21% less than in 2016.

Nonetheless, the share of bachelors in IT specialities in the overall structure of graduation tends to increase. In 2020, it was over 8.5% with an average growth rate of 1.9%. It affects overlap, which ensures a stable number of graduates.

On the other hand, students can now gain practical skills while studying. It is closely related to internship opportunities which the IT industry is providing now. Even more, in 2020, the IT department of the [Kyiv-Mohyla Academy merged with the EASE association](#)<sup>10</sup>. It proves that Ukrainian specialists get strong tech practice. As for now, more students choose not to study for two more years to get a master's degree and prefer to seek practice inside IT companies, so [54%](#)<sup>11</sup> of graduates with bachelor's degrees continue studying.

<sup>9</sup> <https://en.brdo.com.ua/news/the-number-of-it-specialists-in-ukraine-will-increase-by-23-by-2024-brdo-analysis/>

<sup>10</sup> <https://it-ease.com/en/partners/6>

<sup>11</sup> [https://brdo.com.ua/wp-content/uploads/2021/02/Analiz\\_IT\\_osvity\\_u\\_vyshah\\_Ukrai-ny\\_Print.pdf](https://brdo.com.ua/wp-content/uploads/2021/02/Analiz_IT_osvity_u_vyshah_Ukrai-ny_Print.pdf)

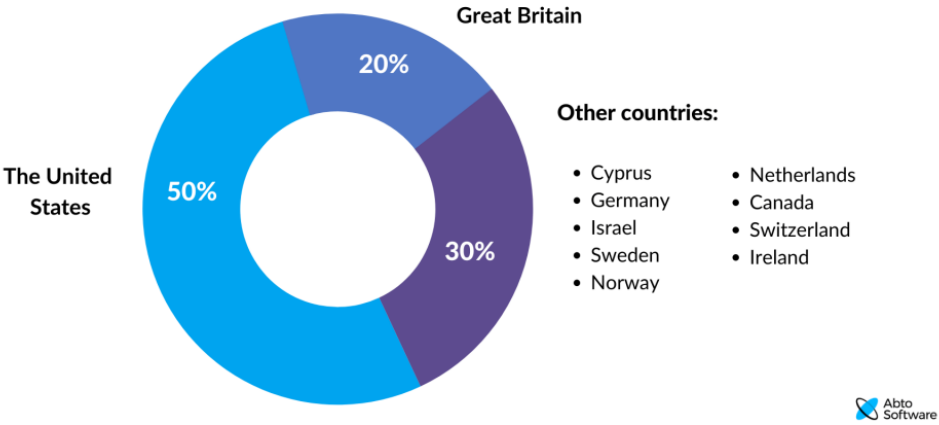


# 5. THE MAIN MARKETS OF IT EXPORT

The main clients of the Ukrainian IT industry are the United States and Western Europe with Great Britain and European Union countries. However, it is obvious that the [USA remains Ukraine's largest R&D partner](#)<sup>12</sup> (45% of research companies), even if the statistics differ in other researches. Although, the geography of Ukraine's main markets is about to expand and become more diverse.

**Main Markets for Ukrainian IT Industry**

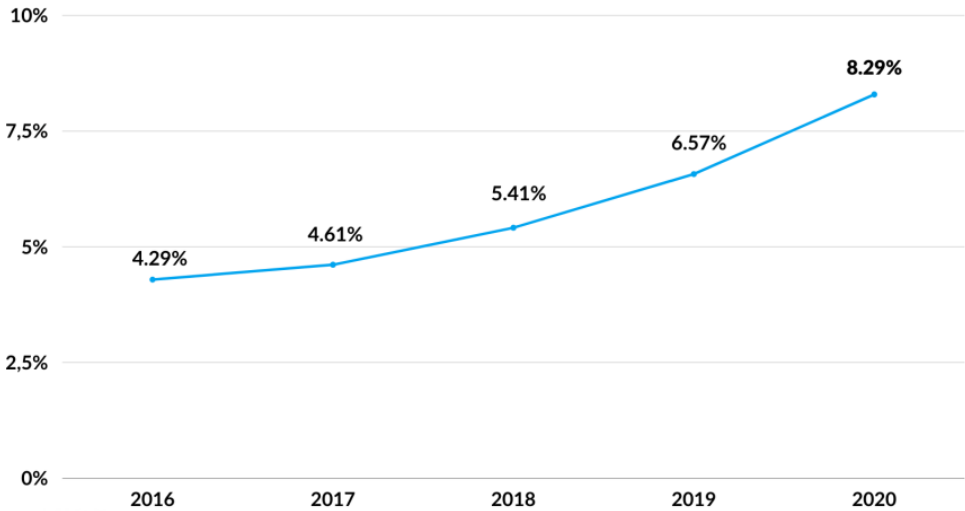
Source: Beetroot - Ukraine: The Home of Great Devs, 2021 Tech Market Report



The growth of the Ukrainian IT market correlates with the growing number of IT services export growth dynamics.

**Ukrainian IT Services Export Growth Dynamics**

Source: BRDO - IT Export in 2020



<sup>12</sup> <https://ain.capital/2021/04/07/ukrainian-tech-market-overview-2021/>

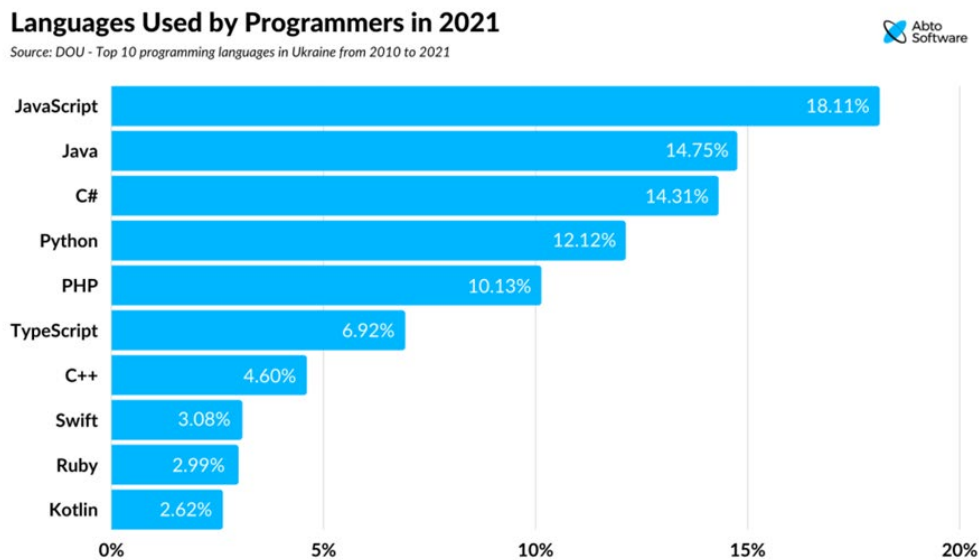
## 6. TECHNICAL SKILLS

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Data provided by Coursera [Global Skills report for 2021](https://www.coursera.org/skills-reports/global)<sup>13</sup> shows that Ukraine took 7th place in the level of Technology knowledge in the world. Moreover, Ukrainian developers are among the leaders of European countries by two parameters – Technology and Data Science.

As for Data Science expertise, the IT industry in Ukraine closes the **top 20 countries**.

And what about the programming languages software developers are using the most? Well, in 2021 JavaScript is leading, Java is in second place, and C# took the third one, [according to DOU](https://dou.ua/lenta/articles/top-10-lang-in-ukraine/)<sup>14</sup>.



<sup>13</sup> <https://www.coursera.org/skills-reports/global>

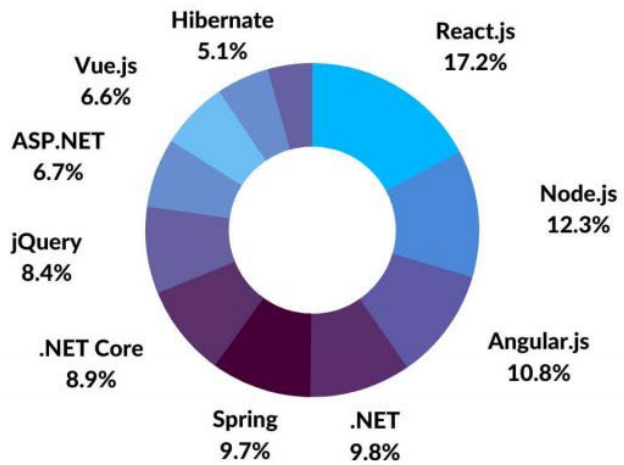
<sup>14</sup> <https://dou.ua/lenta/articles/top-10-lang-in-ukraine/>



The top 5 frameworks<sup>15</sup> in the Ukrainian IT market are React.js, Node.js, Angular.js, .NET<sup>16</sup> and Spring.

### Most Popular Frameworks, Libraries & Platforms in Ukraine

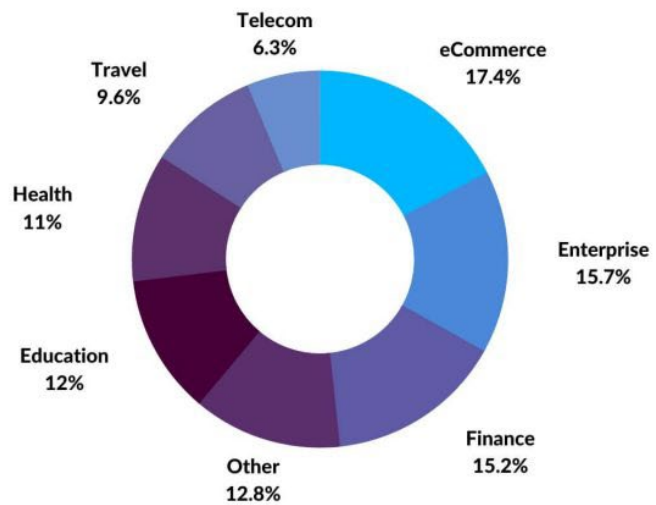
Source: Ain.ua - Ukrainian Tech Market Overview 2021



The IT industry<sup>17</sup> in Ukraine focuses mostly on eCommerce<sup>18</sup>, Enterprise<sup>19</sup>, and Finance<sup>20</sup> software products development. Still, the Education and Healthcare<sup>21</sup> industries are also among the most popular.

### Industry Focus Among Ukrainian Software Development Companies

Source: Ain.ua - Ukrainian Tech Market Overview 2021



<sup>15</sup> <https://ain.capital/2021/04/07/ukrainian-tech-market-overview-2021/>

<sup>16</sup> <https://www.abtosoftware.com/net-development-company>

<sup>17</sup> <https://ain.capital/2021/04/07/ukrainian-tech-market-overview-2021/>

<sup>18</sup> <https://www.abtosoftware.com/portfolio/web-applications/e-commerce-platform-adjustments-for-an-international-company>

<sup>19</sup> <https://www.abtosoftware.com/blog/dot-net-modern-enterprise-architecture>

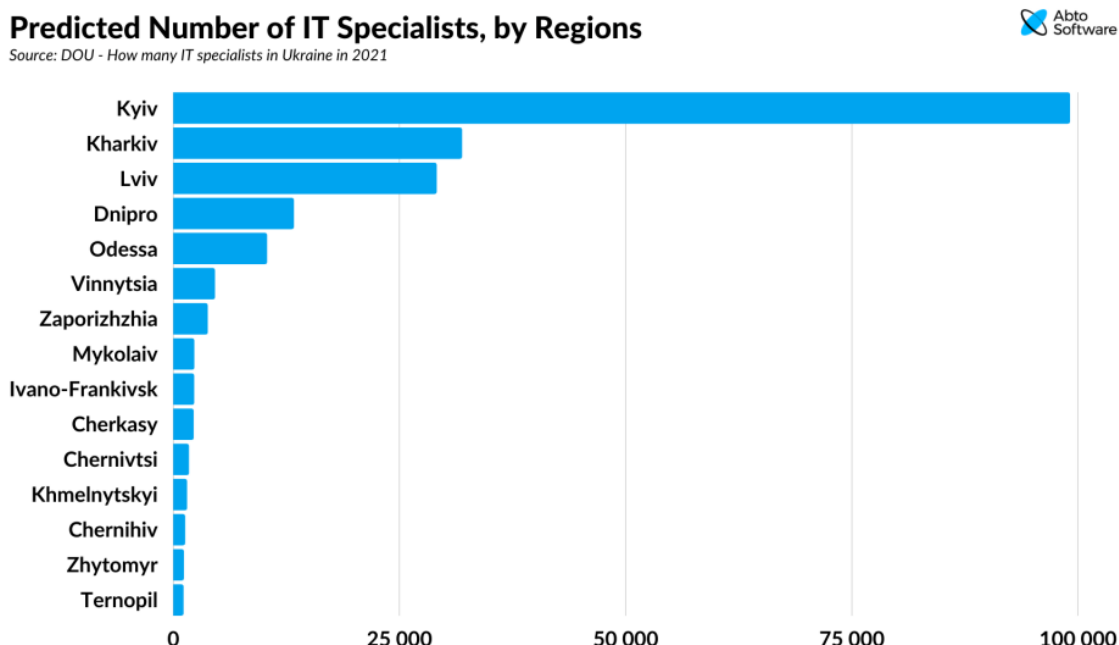
<sup>20</sup> <https://www.abtosoftware.com/portfolio/industries/banking-finance>

<sup>21</sup> <https://www.abtosoftware.com/blog/where-to-find-hire-the-best-healthcare-software-developers>



## 7. NUMBER OF UKRAINIAN IT INDUSTRY SPECIALISTS

The numbers of working specialists differ in different researches and vary from 200 000<sup>22</sup> to 220 000 experts. The majority of them is concentrated in cities with the biggest IT schools: Kyiv, Kharkiv, Lviv, Dnipro and Odessa.



In the Global Skill Report 2022, Ukraine ranked eighth in terms of technological skills.

Ukrainians were recognized as one of the best in the world in working with computer networks, databases, operating systems, security engineering, software engineering, computer programming, web development, mobile device development.

## 8. DIGITAL COUNTRY

Digitalization has become Ukraine's flagship topic and the state priority during the last two years. Taking the lead internally, the Ministry of Digital Transformation has the ambition to make Ukraine a world champion in being digital, and we are already the first ones who can use digital IDs with absolutely no internal restrictions. Here is how Ukraine moves forward with the concept of building a digital state and becoming the world's leading country in terms of providing services for citizens and businesses.

Diia is a new level of interaction between the state and citizens: convenient, invisible, humane. It is the only brand that combines a mobile application with access to citizens' digital documents, and a

<sup>22</sup> <https://www.atlanticcouncil.org/blogs/ukrainealert/ukraines-booming-it-sector-defies-the-coronavirus-crisis/>

single portal of public services for the population and business. The main goal is to make 100% public services available online.

As of the 1 of April 2021, almost 4.5 million Ukrainians have updated the Diia 2.0 application. There are more than 3.6 million users of the Diia portal by now – over 50 government services are available online. Mobile application Diia 2.0 allows Ukrainians to access 9 digital documents (ID card, foreign biometric passport, student card, driver’s license, vehicle registration certificate, vehicle insurance policy, tax number, birth certificate, IDP certificate) and 12 services in total. Just recently, Ukraine has become the first country with a digital ID that is valid and can be used everywhere within the country and the fourth in Europe to launch a digital driving licence. All digital documents in Diia now have the same legal force as their plastic or paper counterparts. Using the Diia app Ukrainians can also share digital copies of the documents, and pay debts or fines.

## 9. USED MATERIALS AND USEFUL LINKS:

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- [https://www.abtosoftware.com/blog/ukrainian-it-industry-key-facts:](https://www.abtosoftware.com/blog/ukrainian-it-industry-key-facts)
- <https://alcor-bpo.com/your-own-rd-office-news/ukrainian-it-industry-market-overview-for-2022/>
- <https://ukraine.ua/invest-trade/digitalization/>

### Disclaimer

The information in this publication is provided for background information that should enable you to get a picture of the subject treated in this document. It is collected with the greatest care based on all data and documentation available at the moment of publication. Thus this publication was never intended to be the perfect and correct answer to your specific situation. Consequently it can never be considered a legal, financial or other specialized advice. Flanders Investment & Trade (FIT) accepts no liability for any errors, omissions or incompleteness, and no warranty is given or responsibility accepted as to the standing of any individual, firm, company or other organization mentioned.

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