TOP 15 SOFTWARE DEVELOPMENT TRENDS

2024

AI and ML Integration

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Projected Impact of AI by 2025

Reach over by 2025
$190 billion

The addition of AI will increase business value by
$2.9 billion

Return time of employee productivity
6.2 billion hours

AI Integration Dynamics

Employees	Leading Country	Influential Industry
+ 2.3 million jobs	**The USA**	**Healthcare**
Expected to meet by 2025	Due to its robust tech industry and investment in AI	With AI's potential to revolutionize patient care and diagnostics

Quantum Computing

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Quantum Computing Market Growth

at a CAGR of 30.2% during the forecast period

Quantum Computing Impact

Employees	Leading Country	Influential Industry
Thousands	**The USA and China**	**Cryptography and cybersecurity**
Thousands of specialized roles in research & development are emerging	They are major players in quantum computing research	Given quantum computing's potential to disrupt current encryption methods

Edge Computing

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The Global Edge Computing Market Growth

at a CAGR of 19%

Edge Computing Impact

Employees	Leading Country	Influential Industry
Tens of thousands	**The USA**	**Manufacturing and industrial IoT**
Tens of thousands of roles, particularly in IoT device management and network infrastructure	Due to its advanced IoT and cloud infrastructure	Edge computing significantly improves operational efficiency

Blockchain Beyond Cryptocurrency

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The Global Blockchain Technology Market Growth

at an impressive CAGR of 67.7%

Blockchain Impact

Employees	Leading Country	Influential Industry
+ 30,000	**Singapore and Switzerland**	**Finance and supply chain**
With a growing demand for blockchain developers and consultants	Are notable for their blockchain-friendly regulatory environments	Blockchain provides transparency and efficiency

Cybersecurity Mesh

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Cybersecurity Mesh growth

$215 BLN

Global spending on security and risk management is projected to reach $215 billion in 2024, a 14% year-over-year increase from 2023

Cybersecurity Mesh Impact

Employees	Leading Country	Influential Industry
Millions	**The USA**	**Financial services**
Millions globally, with cybersecurity roles becoming more integrated and holistic	Given its large cybersecurity market and investment	Where security is paramount and complex

Serverless Architecture

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Serverless Architecture Market Growth

at an impressive CAGR of 22.6%

Serverless Architecture Impact

Employees	Leading Country	Influential Industry
Not specifically quantified	**The USA**	**Tech startups and SaaS providers**
A significant portion of cloud computing roles are moving towards serverless expertise	Leading in cloud services and serverless offerings	Benefiting from the cost-efficiency and scalability of serverless architectures

Low-Code/No-Code Platforms

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Low-Code Development Platform Market Growth

at a CAGR of 28.1%

Low-Code Development Platform Impact

Employees	Leading Country	Influential Industry
Thousands	**The USA**	**Business services and enterprise software**
Particularly among business analysts and project managers who can now engage in software development	With a strong ecosystem of platform providers and users	Enabling rapid app development and prototyping

5G Technology

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The Global 5G Services Market Growth

at an impressive CAGR of 46.2%

5G Technology Impact

Employees	Leading Country	Influential Industry
Hundreds of thousands	**South Korea and China**	**Telecommunications**
In telecom infrastructure, device manufacturing, and application development	Are leaders in 5G deployment	Driving the infrastructure and services for 5G

Internet of Behaviors (IoB)

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IoB's Market Growth

PROJECTIONS ARE STILL EMERGING

As part of the broader digital market, IoB's potential economic impact is significant, although specific market size projections are still emerging.

Internet of Behaviors (IoB) Impact

Employees	Leading Country	Influential Industry
Emerging field	**The USA and China**	**Retail and e-commerce**
Roles in data analytics and consumer psychology are key	With large digital consumer markets to analyze	Utilizing IoB to tailor customer experiences

AR and VR

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AR and VR Market Growth

AR and VR Market Impact

Employees	Leading Country	Influential Industry
+ 100,000	**The USA**	**Entertainment and education**
Globally, in content creation, hardware development, and application design	With a strong presence of tech giants and startups in AR/VR	For immersive experiences and training simulations

DevSecOps

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DevSecOps Market Growth

with a CAGR of 23.41%

DevSecOps Market Impact

Employees	Leading Country	Influential Industry
Tens of thousands	**The USA**	**Technology and finance**
With a shift towards integrating security into all stages of software development	With its large tech sector and emphasis on software security	Where security and rapid deployment are critical

Human Augmentation

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Human Augmentation Market Growth

at a CAGR of 23.9%

Human Augmentation Market Impact

Employees	Leading Country	Influential Industry
Thousands	**The USA and Japan**	**Healthcare and military**
Thousands, particularly in biomedical engineering, wearable technologies, and neurotech	With advanced research in robotics and human augmentation	Exploring enhancements to human capabilities

Sustainability in Software Development

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Sustainability in Software Market Growth

SAVING MILLIONS IN ENERGY COSTS

While specific numbers are challenging to quantify, the emphasis on sustainable practices in software development reduces emissions significantly, with companies potentially saving millions in energy costs

Sustainability in Software Development Impact

Employees	Leading Country	Influential Industry
Are growing	**European countries**	**IT and computing**
Roles in sustainable computing are growing within tech companies focused on green IT	Particularly Nordic nations, are leading in sustainable practices	Focusing on energy-efficient data centers and hardware

PWAs

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PWAs growth

50%

Is the expected proportion that PWAs aim to replace among general purpose, consumer-facing mobile apps by 2025, significantly reducing development costs and improving user retention

PWAs Impact

Employees	The USA and India	Influential Industry
Thousands	**The USA and India**	**Retail and media**
Of web developers are shifting focus towards PWAs for their cross-platform capabilities	With large developer communities and tech industries	Where PWAs offer improved mobile experiences

Voice and NLP

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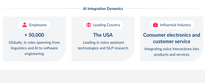
The Voice Recognition Market Growth

Reach by 2025
$27.16 billion

Growing at a CAGR 2020 - 2025
16.8%



AI Integration Dynamics

Employees	Leading Country	Influential Industry
+ 50,000	**The USA**	**Consumer electronics and customer service**
Globally, in roles spanning from linguistics and AI to software engineering	Leading in voice assistant technologies and NLP research	Integrating voice interactions into products and services