A Personal Tech Industry Retrospective

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Prepared and Published by @JimFuhrmann
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As a tech professional with 35 years of industry experience, I've witnessed the tech industry undergo a seismic transformation over the past three decades—a journey I explore in this publication through my thoughts and observations. From the clunky interfaces of MS-DOS and Windows 3.x to the sleek, cloud-driven ecosystems of today, the evolution of technology reflects both remarkable innovation and unexpected trade-offs. This piece delves into the drastic changes in the tech landscape since the early 1990s, examining the fate of IT jobs, the shift from desktop software to cloud solutions, and the implications for productivity and complexity. It also considers the challenges faced by tech professionals like myself seeking to leverage our legacy expertise in a rapidly evolving field.

The Early Days: A Simpler, Desktop-Driven World

In the early 1990s, the tech industry revolved around personal computers running MS-DOS or the newly introduced Windows 3.x. These systems, though rudimentary by today's standards, marked a revolution in accessibility. Small businesses, enterprise organizations, and governments relied on desktop software to manage operations—think spreadsheets in Lotus 1-2-3 or Quattro Pro, word processing in WordPerfect or Word, and database management in tools like Paradox or dBase. IT jobs were abundant, with roles like system administrators, database developers, and desktop / network technicians in high demand. These positions required hands-on expertise with hardware, software installation, and local network maintenance.

For small businesses, desktop database software was a game-changer. A single program like Paradox could store customer records, track inventory, and generate reports—all without an internet connection. Governments, too, leaned on these tools to manage public records and administrative tasks. The tech ecosystem was self-contained, predictable, and, in many ways, simpler. Productivity soared as organizations transitioned from paper-based processes to digital workflows, and the learning curve, while steep for novices, was manageable for those willing to invest time in mastering a few key tools.

The Shift: From Desktop to Cloud

Fast forward to the 2000s and 2010s, and the tech landscape began to shift dramatically. The rise of the internet, followed by the advent of cloud computing, redefined how technology was deployed and consumed. Desktop database software, once a staple, gave way to web-based platforms like Salesforce, Google Workspace, and Microsoft 365. Small businesses traded local servers for subscription-based services, while governments embraced centralized systems to streamline operations across agencies.

This transition brought undeniable benefits: scalability, remote access, and reduced upfront costs. But it also marked the decline of traditional IT roles—a change I watched unfold firsthand. The need for on-site technicians dwindled as companies outsourced infrastructure to cloud providers like AWS and Azure. Database development shifted from standalone applications to integrated, cloud-native solutions, often requiring knowledge of new languages like Python, JavaScript, or SQL in cloud contexts. The IT jobs of the 90s—once stable and plentiful—either evolved into specialized roles (e.g., cloud architects) or faded into obscurity.

A major catalyst for this shift was outsourcing, spurred by NAFTA and free trade policies under Clinton, Bush, and Obama, which reshaped the American job market and rippled globally. As companies chased cost efficiencies, they began offshoring IT functions—call centers, software development, and support—to countries like India, China, and the Philippines, where skilled labor came at a fraction of U.S. wages. By 2015, U.S. firms had outsourced an estimated 14.3 million jobs overseas, according to industry data, with tech and manufacturing hit hardest. In America, this meant the loss of millions of middle-class IT positions—roles my colleagues and I thrived in during the 90s. The Economic Policy Institute pegs the U.S. trade deficit with China alone as costing 3.8 million jobs since 2001, many in tech-related fields. For me, it was jarring to see hands-on roles like desktop and network technicians replaced by remote teams half a world away, often managed through a screen rather than a server room.

Globally, outsourcing fueled economic growth in emerging markets. India's IT sector, for instance, ballooned into a $200 billion industry by the 2020s, employing millions and lifting standards of living. The Philippines became a call center hub, handling 35% of global outsourced services. These countries gained not just jobs but expertise, building knowledge economies that now compete with the U.S. in innovation. Yet, this came at a cost to American workers: wages stagnated as companies leveraged cheaper labor abroad, and the skills gap widened for those left behind—myself included—who didn't pivot to cloud or modern coding fast enough. For legacy tech professionals like me without traditional 4-year college degrees, the impact was even sharper. Back in the 90s, hands-on experience with tools like Paradox or desktop / network hardware opened doors; today, job postings often demand formal credentials or certifications we never needed, locking many of us out of roles we'd once have mastered with ease.

Outsourcing wasn't the only blow. Corporations also turned to H-1B visas, bringing foreign IT workers to the U.S. at lower wages to replace locals like us. By the mid-2000s, many corporations axed American workers, training their cheaper H-1B replacements. For me, it felt like a double hit: jobs shipped overseas, and those left here handed to visa holders.

Domestic outsourcing surged too, with U.S. firms subcontracting to staffing agencies or third-party providers within the country. Studies from the Richmond Federal Reserve suggest this accounts for nearly 40% of the decline in labor market dynamism since the 90s, as temp or contract roles replaced stable payroll jobs. Globally, the outsourcing market hit $92.5 billion by recent estimates, with the U.S. driving 84% of that spend—proof of its dominance in this trend, but also its vulnerability. For every job shipped overseas or subcontracted domestically, the tech industry traded predictability for flexibility, leaving tech professionals like me to navigate a field where our once-valued skills felt increasingly niche.

Productivity and Complexity: A Double-Edged Sword

Has this shift increased productivity? The answer is nuanced. Cloud solutions offer unparalleled flexibility—small businesses can now collaborate in real time across continents, and governments can deploy services to citizens faster than ever. Yet, studies suggest that productivity gains have plateaued in recent years, with some arguing that the constant stream of updates, integrations, and security patches has introduced unnecessary complexity. Desktop software, while limited, delivered consistent results with minimal overhead. Today's tools, by contrast, often demand ongoing training and troubleshooting, pulling focus from core tasks.

Small businesses, in particular, seem to have lost sight of the efficiency traditional desktop software once provided. A Paradox database, for instance, could be tailored to a company's exact needs and run indefinitely without subscription fees or internet dependency. Cloud alternatives, while versatile, often come with bloated features and recurring costs that don't always align with lean operations. The question lingers: has technology become more complicated than it needs to be? For more on Paradox and its integrated programming language ObjectPAL, view the publication *The Case for Paradox* (VMIPub ID: 55271608).

Opportunities for Legacy Tech Professionals

For professionals like myself who cut their teeth on the tech of the 90s and early 2000s, the current landscape can feel alienating. Skills in desktop software development or legacy system maintenance are rarely advertised in job postings dominated by demands for cloud expertise or modern programming languages like Python or C#. Yet, opportunities exist for those willing to adapt without discarding their legacy skillsets.

One path is consulting. Small businesses and niche industries still rely on legacy systems, and legacy tech professionals can offer maintenance, upgrades, or migrations to hybrid solutions that blend old and new. Another avenue is education—sharing decades of

practical knowledge through training programs or writing, as the demand for clear, grounded perspectives on tech grows. Finally, there's room to specialize in bridging the gap: using expertise in structured data (e.g., from Paradox) to inform modern database design or to advocate for simpler, more effective tools in an era of over-engineering.

Looking Ahead

The past 30 years have seen technology evolve from a tool of empowerment to a boundless, pervasive influence. While the shift from desktop to cloud has unlocked new possibilities, it's worth asking whether we've sacrificed simplicity and control in the process. For small businesses, enterprise organizations, and governments, the challenge is to harness tech's potential without drowning in its complexity and losing perceived gains in productivity. For tech professionals like myself with legacy skillsets, it's about carving out relevance in a field that's evolved yet still echoes the lessons of its simpler past.

Conclusion

As the tech industry evolved over the past 30 years, so too has my own path within it. While I once thrived in the desktop-driven world of the 90s, I've shifted over time to other pursuits like web development and real estate photography—fields that, much like IT, have faced their own transformations in recent years. Web development, once a craft of custom coding, has largely moved to streamlined online platforms like Wix and Weebly, lowering barriers but also commoditizing skills I'd honed. Real estate photography, meanwhile, took a hit after 2020 as economic shifts slowed the housing market, reducing the flow of listings and, in turn, the demand for photographers like me. These changes echo the broader lesson of this retrospective: technology's evolution spares no corner of the industry, forcing continual adaptation.

Yet, adaptation has opened new doors. I've since turned to further developing ViewMoreInfo.com—the publishing platform hosting this very piece—channeling my tech experience into a space for sharing insights like these. At the same time, I'm pursuing a later-in-life pivot into the culinary arts, a field far removed from desktop PCs and code but rich with its own challenges and rewards. (You can follow that journey at my other handle, @TheAspiringChef, on this platform.) For me, these shifts underscore a truth for all legacy tech professionals: the skills we carry—whether in structured data or creative problem-solving—don't expire; they evolve. Even this publication reflects that evolution, shaped with AI's assistance to crystallize my decades of observations into a clearer narrative. My story is just one example in this journey, a reminder that the tech landscape, vast and shifting as it is, still holds room for those willing to carve their own path. ■

—End of Information—

The information presented in this publication may be updated periodically.

About This Publication

This publication was prepared and published by @JimFuhrmann with AI support to deliver a clear and compelling retrospective of the tech industry.

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