



The Software Platform to Unlock Quantum's Potential

July 2026

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Recent Executive Order is emblematic of the handoff occurring in quantum - from hardware to software



**“There is hereby established the Quantum Computer for
Application Discovery and Development Science
(QC-ADDS) Effort”**

Our mission positions us perfectly for this shift...



To dramatically
accelerate the
discovery and
development of
quantum applications

Zapata Quantum is the **only US-based publicly traded quantum software company** and leader in the space



2017

Spun out of Harvard

60+

Foundational patents in
quantum software

40+

Significant peer-reviewed
scientific papers

Proven leadership across
research and industry



and others...

Quantum computing has reached an inflection point, driving acceleration of progress and time to value



- Economic value of \$2TN in 2035¹; \$100BN+ platform TAM²
- Public / private sector arms races; 90% of value to 10% early movers³



“Quantum computing is the next frontier and will solve problems we’ve only dreamed of tackling.”

- Jensen Huang, CEO



“The next big accelerator in the cloud will be quantum.”

- Satya Nadella, CEO



“Quantum computing is where AI was five years ago.”

- Sundar Pichai, CEO

1. McKinsey Quantum Monitor 2025
2. Company estimate based on SaaS TAM % of value creation
3. BCG estimate

As with other technology cycles, **software will ultimately drive value creation** and market capitalization



PC / Mobile



\$4TN+ market cap

Web



\$5TN+ market cap

AI



\$6TN+ market cap

Quantum is currently dominated by hardware and full-stack efforts → **inefficient software progress**

- Each provider focused on proving their technology; collective action problem with respect to software
- Enterprises are cautious about committing to one paradigm
- Result is slow software progress and low-value add duplication of efforts



December 2025 Google paper highlights the critical quantum computing software gap



The Grand Challenge of Quantum Applications

Ryan Babbush,^{*} Robbie King,[†] Sergio Boixo, William Huggins, Tanuj Khattar,
Guang Hao Low, Jarrod R. McClean, Thomas O'Brien, and Nicholas C. Rubin
Google Quantum AI, Santa Barbara, CA 93111, United States

(Dated: December 5, 2025)

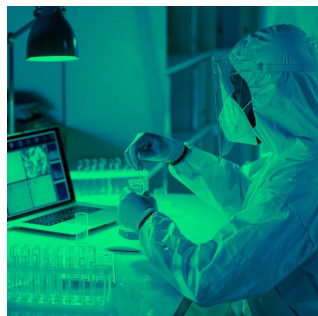
This perspective outlines promising pathways and critical obstacles on the road to developing useful quantum computing applications, drawing on insights from the Google Quantum AI team. We propose a five-stage framework for this process, spanning from theoretical explorations of quantum advantage to the practicalities of compilation and resource estimation. For each stage, we discuss key trends, milestones, and inherent scientific and sociological impediments. We argue that two central stages—identifying concrete problem instances expected to exhibit quantum advantage, and connecting such problems to real-world use cases—represent essential and currently under-resourced challenges. Throughout, we touch upon related topics, including the promise of generative artificial intelligence for aspects of this research, criteria for compelling demonstrations of quantum advantage, and the future of compilation as we enter the era of early fault-tolerant quantum computing.

“Identifying concrete problem instances expected to exhibit quantum advantage and connecting such problems to real-world uses cases represent essential and under-resourced challenges.”

Zapata is the **leader in quantum software** across high-value domains



Quantum Native



Industrial Chemistry

Batteries, catalysts, fertilizers, polymers, specialty chemicals



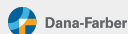
Pharma / Biotech

Drug discovery, enzyme design, biomolecular simulation

Homogeneous catalysis



Cancer research: KRAS inhibitors



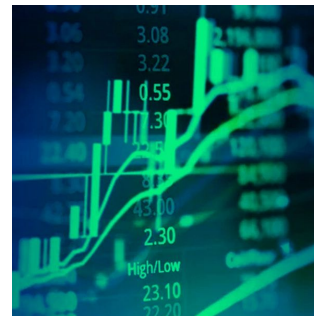
Quantum Mapped



Optimization

Networks, logistics, manufacturing, supply chains

Production line optimization



Simulation

Defense, finance, computational fluid dynamics, materials

Credit valuation adjustment



Machine Learning

Anomaly detection, intelligent controls, pattern discovery

Molecular property prediction



Zapata's cancer research chosen as one of Nature Biotech's top 10 of 2025



nature biotechnology



Brief Communication

<https://doi.org/10.1038/s41587-024-02526-3>

Quantum-computing-enhanced algorithm unveils potential KRAS inhibitors

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Mohammad Ghazi Vakili^{1,2}, Christoph Gorgulla^{3,4}, Jamie Snider⁵, Akshat Kumar Nigam⁶, Dmitry Bezrukov⁷, Daniel Varoli⁸, Alex Aliper⁷, Daniil Polykovsky⁹, Krishna M. Padmanabha Das^{10,11}, Huel Cox III¹¹, Anna Lyakisheva⁵, Ardalan Hosseini Mansob^{5,12}, Zhong Yao⁵, Lela Bitar^{5,13}, Danielle Tahoulas^{5,14}, Dora Čerina^{14,15}, Eugene Radchenko⁷, Xiao Ding⁷, Jinxin Liu⁷, Fanyue Meng⁷, Feng Ren⁷, Yudong Cao¹⁶, Igor Stagljär^{5,12,14,17}, Alán Aspuru-Guzik^{1,2,16,18,20,21} & Alex Zhavoronkov⁷

We introduce a quantum-classical generative model for small-molecule design, specifically targeting KRAS inhibitors for cancer therapy. We apply the method to design, select and synthesize 15 proposed molecules that could notably engage with KRAS for cancer therapy, with two holding promise for future development as inhibitors. This work showcases the potential of quantum computing to generate experimentally validated hits that compare favorably against classical models.

The Quantum Computing Application Bottleneck

01 Dynamic landscape

"Every plan we write is stale in six months. A roadmap slips, a new algorithm lands, and we're re-evaluating from scratch."

02 Lack of rigorous assessments

"Everyone has an opinion on whether a quantum use case will actually work. What I don't have is a defensible, evidence-based business case that I can take to leadership."

03 Lack of objectivity

"Every vendor's benchmark says they're winning. I need an unbiased evaluation and don't want to get locked in to any one system."

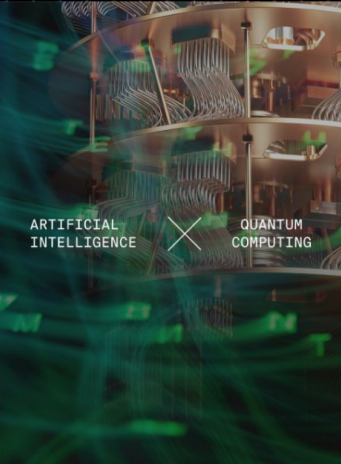
04 Little in-house expertise

"We don't have a quantum physicist on staff, so we can't do it alone - and it's hard to evaluate outside partners."

**Organizations struggle with their strategy to discover, develop,
and deploy quantum computing applications**

We are partnered with NVIDIA to apply AI as part of resolving this bottleneck...

PARTNERSHIP





Zapata Teams with NVIDIA to Apply Agentic AI to Accelerate Quantum Algorithm Development

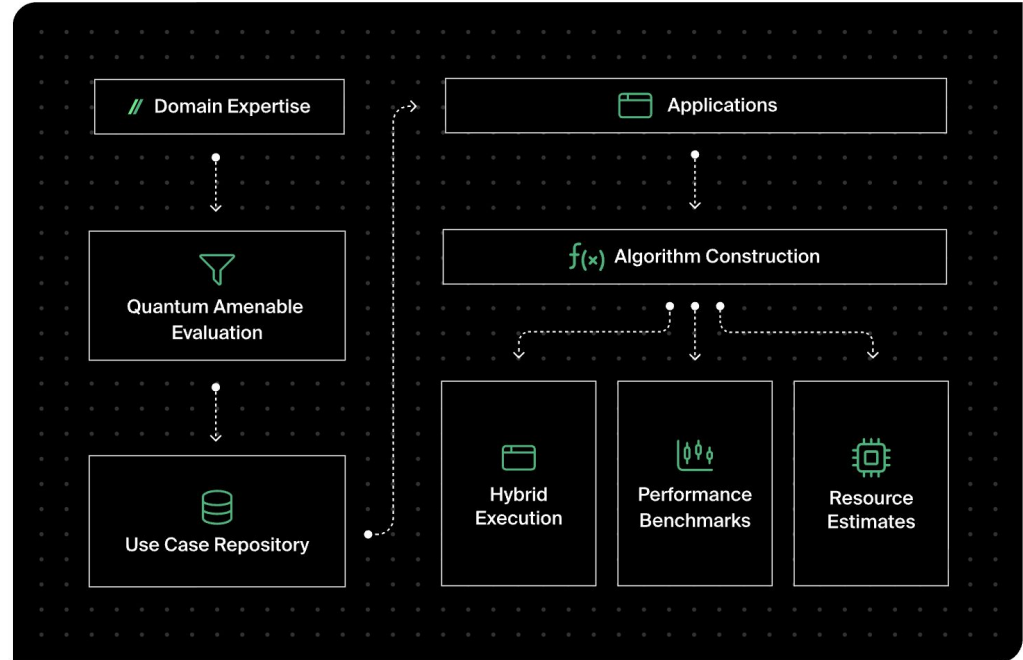
BOSTON, June 23, 2026 – Zapata Quantum (OTCQB: ZPTA) (“Zapata” or the “Company”) today announced it is applying agentic AI to accelerate quantum algorithm development by automating quantum resource estimation (“QRE”) workflows, in collaboration with NVIDIA. The effort initially targets applications in quantum chemistry, including drug discovery, energy, and advanced materials development.

[READ THE PRESS RELEASE](#) 

Zapata's **pressure-tested solution** is based on our unique DARPA experience

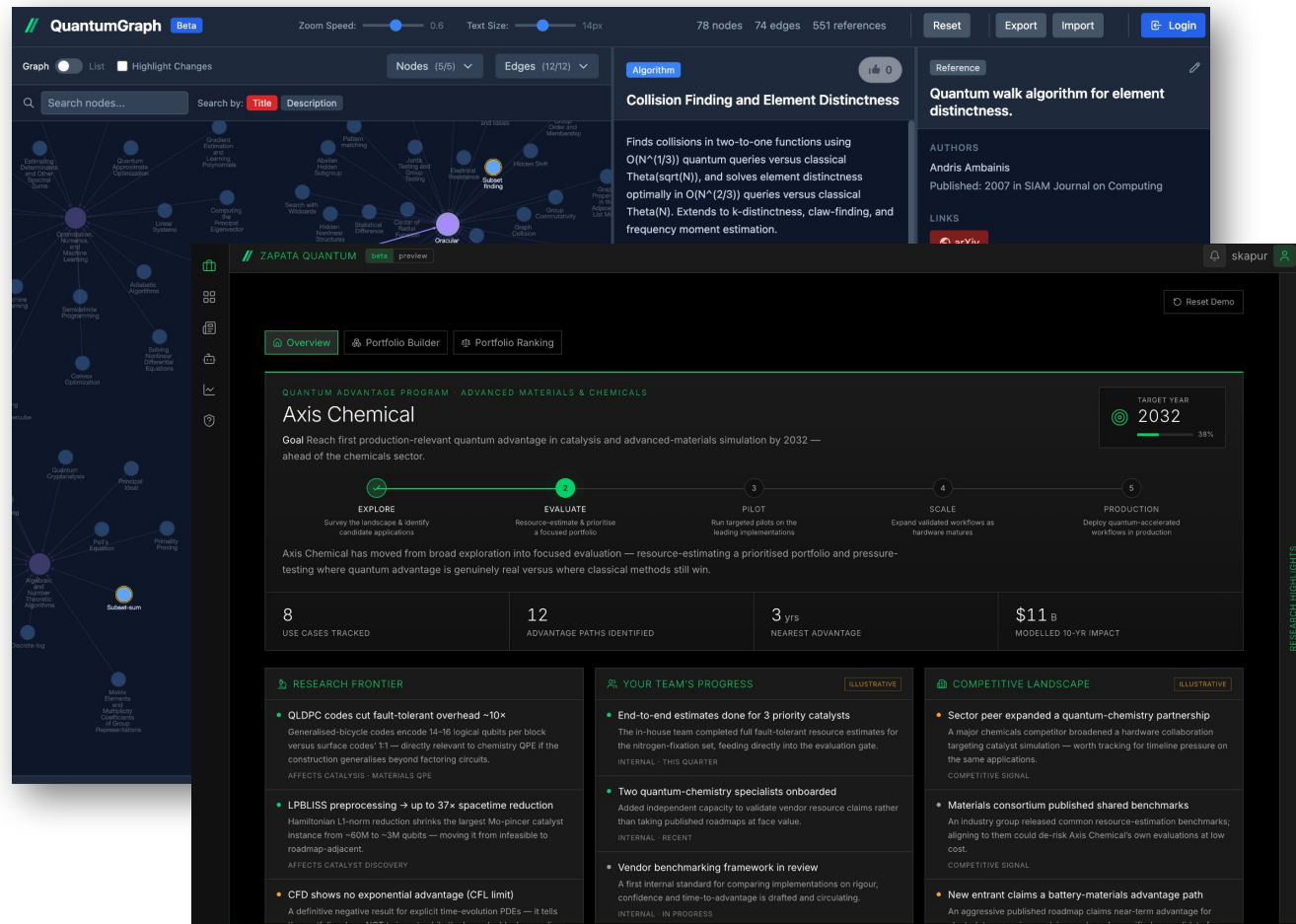


- DARPA's Quantum Benchmarking (QB) Program laid the foundation for quantum application development
- Zapata was the **only company chosen for all three critical phases of the program**
- Our solution codifies this multi-year, multi-party effort spanning public sector and industry



Zapata's platform provides unified tooling for the full quantum application lifecycle

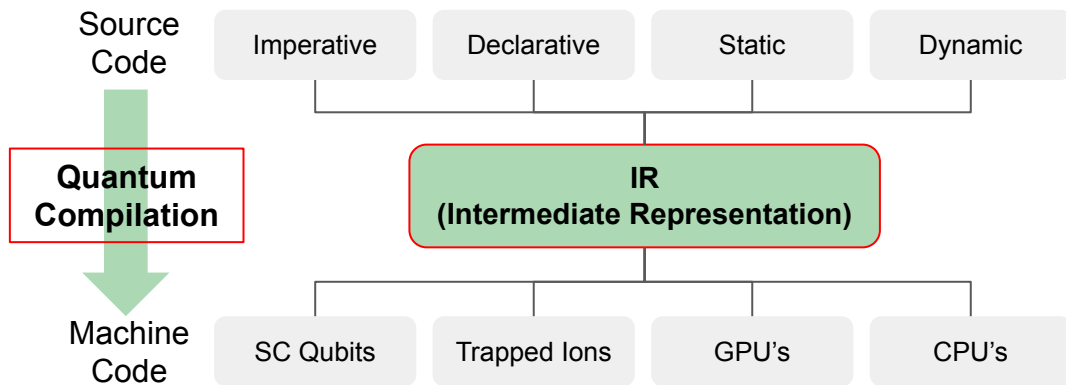
Discovery →
Development →
Deployment



Zapata's approach is **backed by foundational IP developed over 8+ years** as a pioneer in quantum software



Validation study conducted by major global consultancy concluded Zapata's **60+ patents cover three strategic control points**



Intermediate Representation patent
based on 2022 QED-C working group
convened by Zapata's CTO

We believe this patent is foundational to
quantum / hybrid compilation

Zapata's senior leadership consists of leading scientists from Harvard's quantum computing lab



Sumit Kapur, CEO

- 20+ years experience scaling complex businesses; grew prior ML firm 50x to \$1BN revenue over 10 years
- MBA, Harvard Business School; BA in Applied Mathematics, Harvard College



Yudong Cao, CTO

- 15+ years in AI and quantum computing, 40+ papers, 30 patents, 4.5k citations
- Former head of quantum at BCG X
- Harvard quantum computing postdoc; PhD in computer science



Jhonathan Romero Fontalvo, VP of Product

- 10+ years in quantum computing and AI, 40+ peer-reviewed publications, 6 patents, 10k citations
- Harvard PhD in chemical physics; developed foundational quantum algorithms for chemistry and machine learning



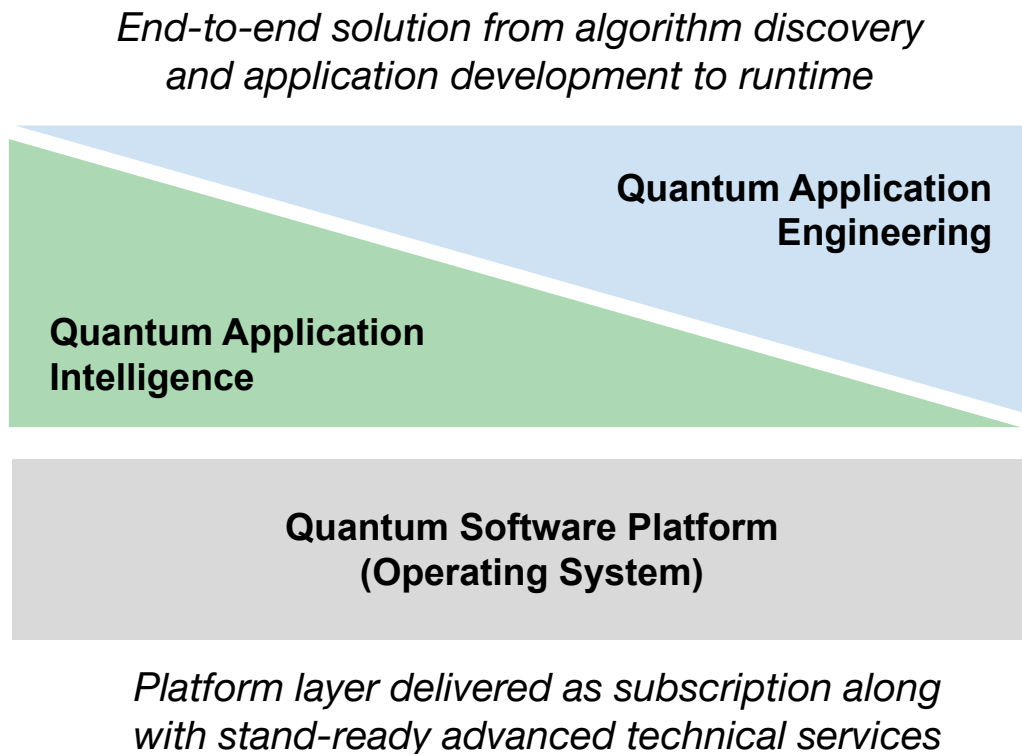
Jonny Olson, VP of Operations and Strategy

- 10+ years in quantum computing; intellectual property law specialist; extensive experience bridging technical advancements with legal protection
- Harvard quantum computing postdoc; PhD in physics; licensed patent attorney

Zapata's model is analogous to other frontier tech models



- Modular platform captures value across the full quantum application lifecycle
- TAM: Current \$2BN quantum computing market growing at 35% CAGR¹
- Validated commercial demand through enterprise engagements, government-funded research, and strategic partnerships (e.g. hardware)
- Upside potential from IP licensing or strategic acquisitions to expand capabilities and value

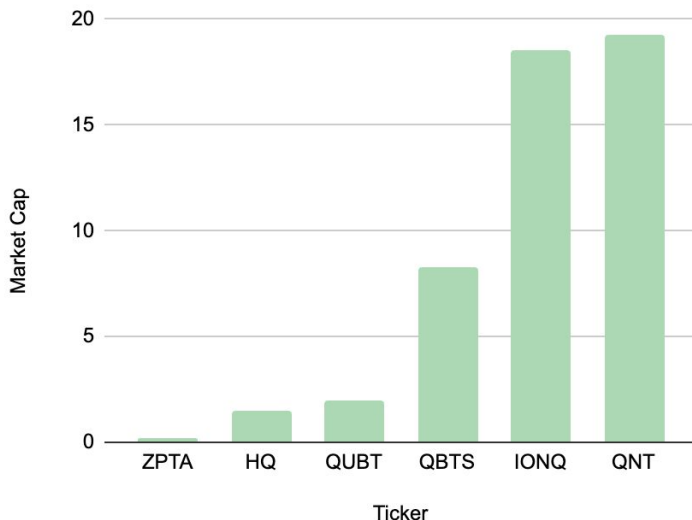


Zapata offers a uniquely attractive entry point into quantum

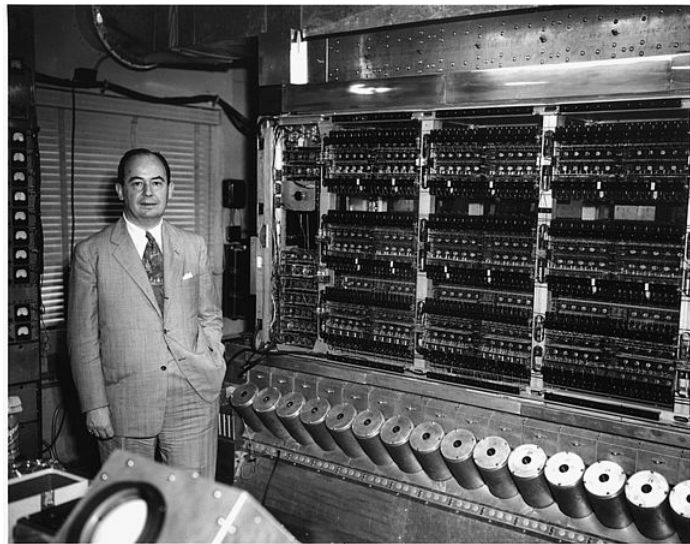


- Restructuring complete
 - Clean balance sheet (over \$20M debt restructured)
 - New high-quality capital from top-tier VC's, top quantum fund, prominent quantum co execs
 - Operations fully restored / key technical leadership intact
 - Road paved to much higher valuations as **the foundational quantum software company**
- Significant potential near-term catalysts
 - Equity research / awareness
 - Nasdaq / NYSE uplistings
 - Commercial conversions
 - Partnerships (NVIDIA and beyond)
 - Government grants / programs (e.g. DOE Genesis Mission)
 - Continued scientific / IP progress

Select Public Quantum Companies



We are only at the beginning...



In 1945, John von Neumann wrote to Lewis Strauss about the potential uses of computers:

"Uses which are not, or not easily, predictable now, are likely to be the most important ones.

Indeed they are by definition those which we do not recognize at present because they are **farthest removed from what is now feasible**, and they will therefore constitute the most surprising and farthest-going extension of our present sphere of action in mathematics and in applied mathematics."

The logo for Zapata Quantum, featuring the company name in a white sans-serif font with a green double-slash icon, all enclosed in a white rectangular border.

ZAPATA //
QUANTUM

**Software to Unlock
Quantum's Potential**

Thank You

**Sumit Kapur
CEO**

skapur@zapataquantum.com