AI trained on bacterial genomes produces never-before-seen proteins

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🧪 LARGE NUCLEIC ACID MODELS?

AI trained on bacterial genomes produces never-before-seen proteins

Genes with related functions cluster together, and the AI uses that.

JOHN TIMMER – NOV 21, 2025 6:26 PM | 💬 47

Credit: CHRISTOPH BURGSTEDT/SCIENCE PHOTO LIBRARY

AI systems have recently had a lot of success in one key aspect of biology: the relationship between a protein's structure and its function. These efforts have

"Genes with related functions cluster together, and the AI uses that."

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New Artificial Intelligence Model Could Speed Rare Disease Diagnosis

https://hms.harvard.edu/news/new-artificial-intelligence-model-could-speed-rare-disease-diagnosis

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PopEVE can identify genetic variants most likely to cause severe disease, death

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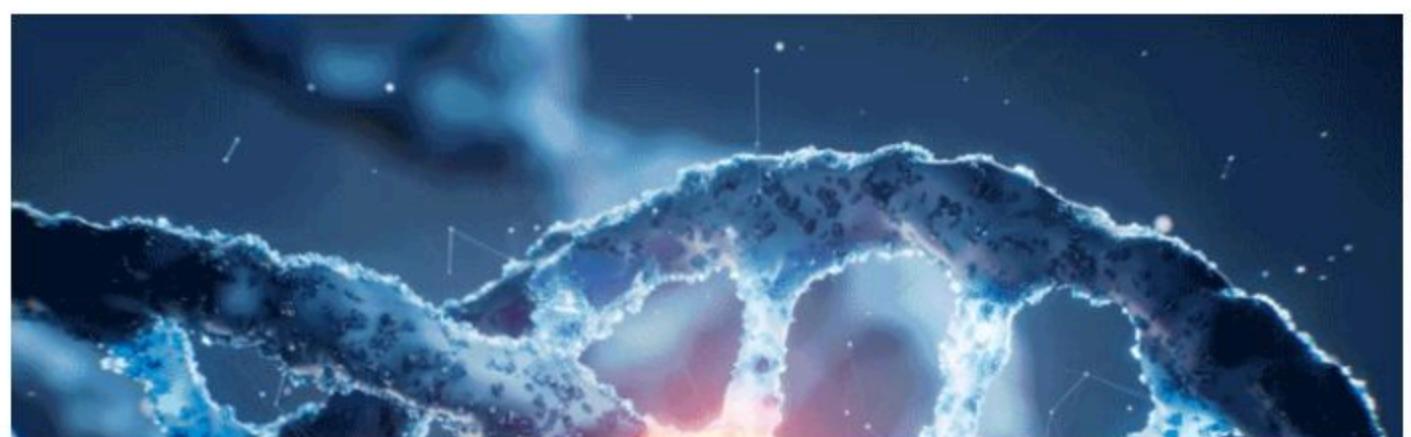
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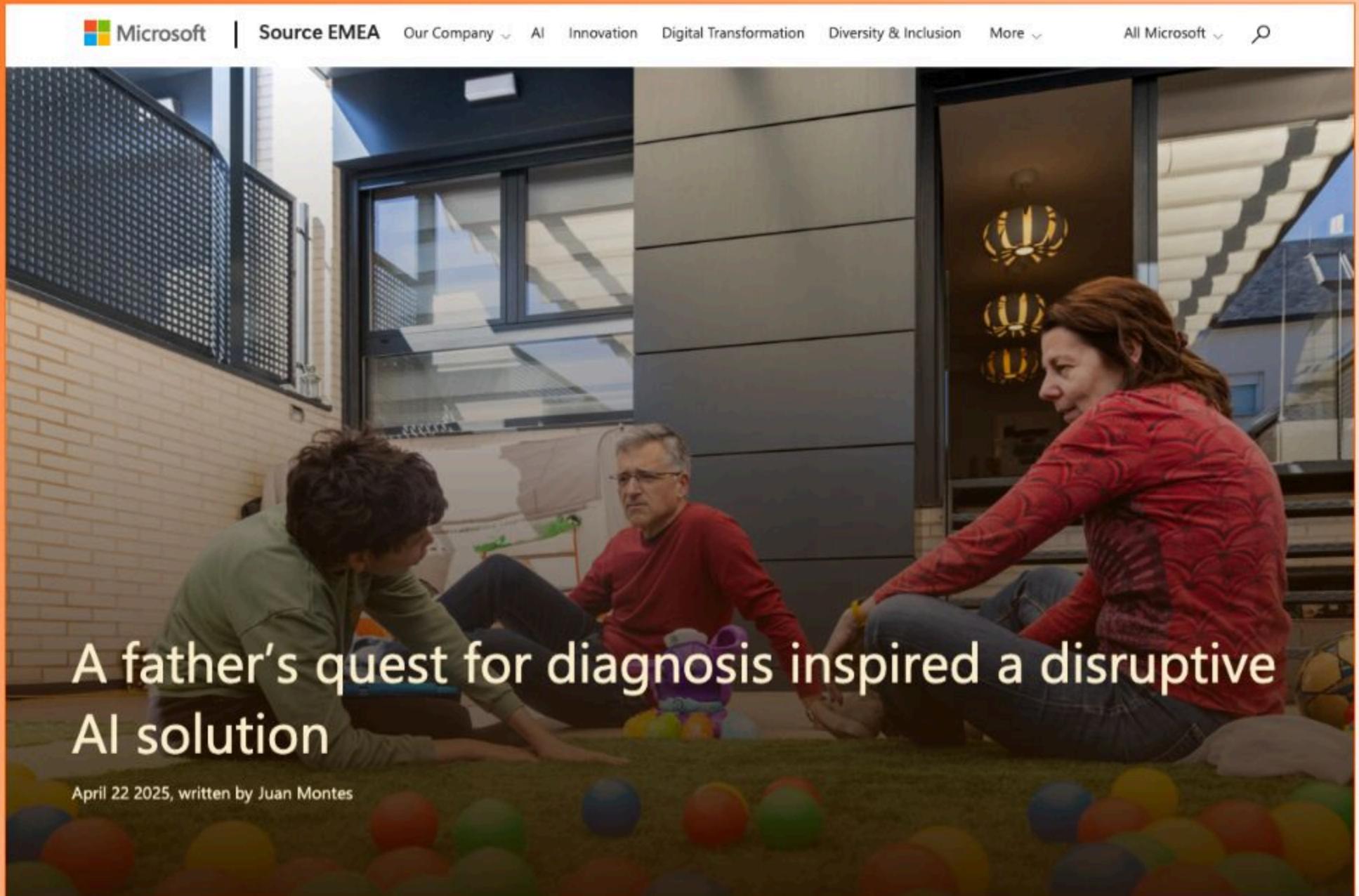
By CATHERINE CARUSO | November 24, 2025 | Research
4 min read

"PopEVE can identify genetic variants most likely to cause severe disease, death"

A father's quest for diagnosis inspired a disruptive AI solution - Source EMEA

"Three months after Julián Isla's son Sergio was born, the infant's arms and legs suddenly began to shake and his body stiffened during a routine bath."

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How good engineers write bad code at big companies

https://www.seangoedecke.com/bad-code-at-big-companies

sean goedecke

November 29, 2025 | good engineers, tech companies

How good engineers write bad code at big companies

Every couple of years somebody notices that large tech companies sometimes produce surprisingly sloppy code. If you haven't worked at a big company, it might be hard to understand how this happens. Big tech companies pay well enough to attract many competent engineers. They move slowly enough that it looks like they're able to take their time and do solid work. How does bad code happen?

Most code changes are made by relative beginners

I think the main reason is that **big companies are full of engineers working outside their area of expertise**. The average big tech employee stays for only a year or two[1]. In fact, big tech compensation packages are typically designed to put a four-year cap on engineer tenure: after four years, the initial share grant is fully vested, causing engineers to take what can be a 50% pay cut. Companies do extend temporary yearly refreshes, but it obviously incentivizes engineers to go find another job where they don't have to wonder if they're going to get the other half of their compensation each year.

If you count internal mobility, it's even worse. The longest I have ever stayed on a single team or codebase was three years, near the start of my career. I expect to be re-orged at least every year, and often much more frequently.

"_"

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OpenAI Declares 'Code Red' as Google Threatens AI Lead

Companywide memo is most decisive indication yet of pressure OpenAI faces from competitors

By *Berber Jin* Follow

Dec. 2, 2025 1:27 am ET

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Jason Girzadas
Chief Executive Officer, Deloitte US

The proliferation of applications being built

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What really happens after you hit enter on that AI prompt? WSJ's Joanna Stern heads inside a data center to trace the journey and then grills up some steaks to show just how much energy it takes to make an AI image and video. Photo: David Hall

""

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OpenAI's "Code Red"

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OpenAI's "Code Red"

Maybe people should have seen this coming?

GARY MARCUS
DEC 03, 2025

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Third, at least so far **OpenAI lacks both profits and a moat**. The systems that they build are hugely expensive to operate, because they require massive amounts of compute for training (estimated in the tens or hundreds of millions of dollar for GPT-4, and rumored to be on the order of a billion dollars for GPT-5), but at the same time the general principles for building them have become fairly well-known in the industry. Google seems finally to be catching up, with their Gemini model, and Meta is releasing open-source competitors, perhaps not quite as good, but catching up quickly. Amazon and Apple may compete, and so on; dozens of startups are trying to as well. Large language models such as ChatGPT may quickly become commodities; we can expect price wars, and profits may continue to be elusive, or modest at best.

A January 2024 analysis that warned that Google might catch up, that profits would

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"Maybe people should have seen this coming?"

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The Junior Hiring Crisis

By Annie Hedgpeth · November 29, 2025

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"AI isn't replacing everyone. It's removing the apprenticeship ladder. Here's what that means for students, early-career professionals, and the tech industry's future."

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Users scramble as critical open source project left to die · The Register

The Register®

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SOFTWARE

Another open source project dies of neglect, leaving thousands scrambling

Paying Ingress NGINX maintainers for their work might have avoided this outcome

114 💬

🔺 Steven J. Vaughan-Nichols   Tue 2 Dec 2025 // 09:30 UTC

🔴 ⓧ ⓕ ⓘn ⓢ

OPINION There were lots of announcements about Kubernetes at KubeCon North America in Atlanta. I should know, I was there from beginning to end. But the biggest Kubernetes story of all didn't get much attention. Kubernetes is retiring its popular Ingress NGINX controller. Ingress NGINX goes to that big bit farm in the sky in March 2026. After that, "there will be no further releases, no bugfixes, and no updates to resolve any security vulnerabilities that may be discovered."

Ingress NGINX, for those who don't know it, is an ingress controller in Kubernetes clusters that manages and routes external HTTP and HTTPS traffic to the cluster's internal services based on configurable Ingress rules. It acts as a reverse proxy,

"Opinion: Paying Ingress NGINX maintainers for their work might have avoided this outcome"

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Bun is joining Anthropic I Bun Blog

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Bun is joining Anthropic

Jarred Sumner · December 2, 2025

TLDR: Bun has been acquired by Anthropic. Anthropic is betting on Bun as the infrastructure powering Claude Code, Claude Agent SDK, and future AI coding products & tools.

What doesn't change:

- Bun stays open-source & MIT-licensed

- Bun continues to be extremely actively maintained

- The same team still works on Bun

- Bun is still built in public on GitHub

- Bun's roadmap will continue to focus on high performance JavaScript tooling, Node.js compatibility & replacing Node.js as the default server-side runtime for JavaScript

Claude Code ships as a Bun executable to millions of users. If Bun breaks, Claude Code breaks. Anthropic has direct incentive to keep Bun excellent.

What changes:

On this page

How Bun started
  Bun v0.1.0
  Bun v1.0.0
  Bun v1.1
  Bun v1.2
  Bun v1.3
  AI started to get good
  I got obsessed with Claude Code
  The road ahead
  The walk
  This is a little bit crazy
  Why this makes sense
  Bun joins Anthropic
Frequently asked questions

"Bun has been acquired by Anthropic. Anthropic is betting on Bun as the infrastructure powering Claude Code, Claude Agent SDK, and future AI coding products & tools."

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Using AI to accelerate hiring and productivity at Zapier

https://newsletter.getdx.com/p/using-ai-to-accelerate-hiring-and-productivity-at-zapier

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Using AI to accelerate hiring and productivity at Zapier

Lessons from Zapier's experience building hundreds of internal AI agents to reduce engineering friction.

JUSTIN REOCK
DEC 03, 2025

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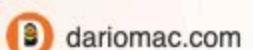
📝 Laura is hosting a year-in-review roundtable next week with developer productivity researchers from Microsoft, Google, and GitHub, covering this year's biggest insights

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"Lessons from Zapier's experience building hundreds of internal AI agents to reduce engineering friction."

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https://www.yodev.dev/t/generative-ai-s-real-impact-on-workforce-productivity-in-2025-what-gartner-the-fed-data-really-say/752

"Generative AI's Real Impact on Workforce Productivity in 2025—What Gartner & the Fed Data Really Say Introduction The generative AI productivity debate has reached a fever pitch in 2025. While headlines scream about revolutionary gains, executives demand hard numbers. The reality? AI's impact on workforce productivity is both more nuanced and more measurable than the hype suggests. Cutting through the noise requires triangulating multiple data sources: Gartner's latest surveys revealing the…"