Paul Murray

Frontend & Full-Stack Engineer

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A decade of experience building interactive interfaces, data visualizations, and live-updating applications for newsrooms, scientific research, and widely-used developer platforms.

WORK EXPERIENCE

Vercel Nov 2024 – Oct 2026

Software Engineer · Design Engineering / Site Team

- Refreshed, fixed, and maintained public-facing pages on vercel.com, nextjs.org, ui.shadcn.com, and ai-sdk.dev.
- Improved website performance and caching, resolved bugs, and implemented features for marketing, sales, legal, and recruiting teams.

The Flatiron Institute Mar 2023 – Nov 2024

Frontend/UI Engineer · Scientific Computing Core

- Built scientific data exploration and visualization tools for computational researchers.
- Developed cluster usage analytics and internal user-management applications.

Bloomberg News Dec 2018 – Mar 2023

Graphics Editor · Global Graphics Team

- Built weekly deadline-intensive graphics for Bloomberg News, including:
  - Live Election-night coverage of the 2018 and 2020 U.S. elections.
  - A Node.js geospatial pipeline and Svelte frontend for Clean Power Isn't Reaching Those Who Need It Most, combining approximately seven data sources with GeoTIFF processing and H3 hexagonal binning.
  - The Covid-19 Vaccine Tracker visualization and data pipeline.
  - An interactive climate simulator, and several other visual-heavy climate-related articles.

The New York Times Jun 2016 – Nov 2018

Software Engineering · Interactive News Team

- Developed full-stack newsroom tools, data pipelines, and public-facing applications with real-time data and user submissions.
- Pitched, designed, and developed the presidential approval-ratings interactive; contributed visualizations to other reported stories.

SELECTED TECHNOLOGIES

Frontend: TypeScript, React, Next.js, Svelte, SvelteKit, Tailwind CSS, Server Components.

Visualization: D3.js, Canvas, SVG, WebGL/WebGPU, Three.js, ffmpeg, Figma.

Backend & data: Node.js, Vercel, Next.js + Caching, Redis, MongoDB, Docker, Vercel Sandbox, Vercel Workflow, AWS, GCP, SQL, (Limited: Go, Ruby, Kubernetes)

EDUCATION & RESEARCH

University of Illinois at Chicago · Doctoral studies, Computer Science 2014 - 2016
Electronic Visualization Lab · Bioinformatics data visualization

University of Arizona · Master of Science, Sociology 2011 - 2013

University of Mary Washington · Bachelor of Science, Psychology 2005 - 2009