# NICK STRAYER

As a software developer I use my background in data science to build tools to help people explore, understand, and work with their data better. I have made visualizations viewed by hundreds of thousands of people, sped up query times for 25 terabytes of data by an average of 4,800 times, and built packages for R that let you do magic.

## SELECTED INDUSTRY EXPERIENCE

Current | 2024 — **Principal Software Engineer** Posit — Remote

- Architect and develop full-stack solutions for the Positron data science IDE
- Worked across the Typescript, Python, and Rust codebase to build user-centric interfaces that balance performance with intuitive design
- Collaborate across teams to ensure reliable, maintainable codebase architecture
- Mentored junior developers on frontend best practices and code quality standards

2024 | 2023 — **Senior Software Engineer** Posit — Remote

- Created and led development of ShinyUiEditor, a React-based drag-and-drop interface builder
- Designed architecture for real-time previewing and component manipulation using custom psuedo-ast format that allowed translation into either R or Python from the same ast.
- Spearheaded work to simplift and unify the UI layer of R and Shiny using custom webcomponents.

2023 | 2020 — **Software Engineer** Posit — Remote

- Part of team who created Shiny for Python, a ground-up rewrite of R's Shiny framework in Python

2016 — **Data Journalist - Graphics Department** New York Times — New York, New York

- Reporter with the graphics desk covering topics in science, politics, and sport.
- Work primarily done in R, Javascript, and Adobe Illustrator.
- Developed interactive, data-dense visualizations viewed by hundreds of thousands of users

## EDUCATION

2020 — **PhD., Biostatistics** Vanderbilt University — Nashville, TN

- Disertation: Network analysis and visualization for electronic health records data.
- Specialized in creating high-performance interactive visualization platforms
- Developed algorithms for efficient real-time network data processing

2015 — **B.S., Mathematics, Statistics (minor C.S.)** University of Vermont — Burlington, VT

- Thesis: An agent based model of Diel Vertical Migration patterns of Mysis diluviana
- Focused on computational efficiency, simulation optimization, and interactive model exploration

## SELECTED DATA SCIENCE WRITING

2016 — **The Great Student Migration** The New York Times

- Most shared NYT article of August 2016, demonstrating ability to create engaging UIs.
- Used d3.js to realtime render 100 maps for personalized inspection for readers.

2019 — **Using AWK and R to Parse 25tb** LiveFreeOrDichotomize.com

- Achieved 4,800x performance improvement for large-scale genomic data processing.
- Reached top of HackerNews multiple times

View this resume online with links at *nickstrayer.me/cv/resume*

For a longer form version, see my CV.

## CONTACT


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## TECHNICAL SKILLS

I have professional experience with the following languages, technologies, and concepts

**Languages:**

Typescript, Python, R, Rust, C++, GLSL

**Frontend:**

React, D3.js, three.js, rgl, redux

**Technical strengths:**

Software architecture, rendering optimization, algorithmic efficiency

**Application types:**

Data dashboards, Statistical algorithm implementations, Data processing pipelines, IDEs.


*Made with my package **datadrivencv**.*
*The source code is available at https://github.com/nstrayer/cv.*
*Last updated on 2025-04-02.*