

Benjamin E. Noland

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Experience

Adjunct Professor of Mathematics

Mercer County Community College, West Windsor, NJ

August 2023-Present

Software Developer

Savvy Marketers, LLC, Princeton, NJ

March 2023–July 2023

- Contributed to the code base for a custom learning management solution (LMS) being developed by the company. Used React for the front-end and Node and MongoDB for the back-end.
- Designed and programmed marketing research surveys for large corporate clients using Decipher survey development software.
- Wrote reports summarizing the research findings.
- **Skills used:** JavaScript, Docker, React, MongoDB

Research Engineer

Mem Protocol, Inc., San Francisco, CA

May 2021–March 2022

- Was the first non-founding employee at the company.
- Managed a BigQuery database containing information about transactions on the Ethereum network. Wrote SQL queries to extract data for a social web application. Applied database optimizations to cut query times in half.
- Designed and prototyped the architecture for a system for managing decentralized identity online.
- **Skills used:** SQL, software engineering

Research Associate

C2SMART, New York University, New York, NY

August 2020–July 2021

- Worked towards development of a means for assessing the effectiveness of teams working on projects under the auspices of the New York State Department of Transportation (NYSDOT) by examining project outcomes.
- One of the major goals of the project was to help NYSDOT improve project outcomes through effective allocation of resources (staff, consultants, etc.) to projects throughout the state.
- **Skills used:** R, data processing, statistics

Research Assistant

RIME, Rutgers University, New Brunswick, NJ

June 2019–November 2019

- Used R to process and manage data on bids made by contractors for construction jobs nationwide, using data from the Bid Express bidding service.
- Assisted in research investigating bid price distributions and forecasting future bid prices. Included extensive exploratory analysis, including producing visualizations using ggplot, along with analysis of the time series of bid prices using standard R modeling tools.
- **Skills used:** R, data processing, statistics

Research Assistant

SMLR, Rutgers University, New Brunswick, NJ

May 2018–May 2019

- Designed and implemented a web application using R and Shiny to explore the unionization trends of registered nurses in the United States using Current Population Survey (CPS) data.
- The application allows the user to select, aggregate, and visualize the data to explore union membership and union contract coverage rates. The application was built using the Shiny framework, with visualizations done using ggplot.
- The application is currently available at:

`https://smlr.rutgers.edu/content/nurse-unionization-data-tool`

- **Skills used:** R, Shiny, data processing

Education

- **MS in statistics, Rutgers University**, New Brunswick, NJ (with honors)
September 2017–May 2019
- **BA in mathematics, Rutgers University**, New Brunswick, NJ (with honors)
September 2012–May 2016