

John Randolph

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Experience

Meta

New York, NY

SOFTWARE ENGINEER, FACEBOOK INTEGRITY – PHP, IOS, ANDROID, REACT, C

August 2022 - Now

- Lead engineer for Facebook **Community Notes**; architected consensus algorithm and led design; managed other Eng
- Contributing engineer to Meta **Family Center**, connecting millions of teen and parent accounts
- Owner of **misinformation guardrails** and youth time controls on Facebook
- Contributor to Facebook **emergency integrity responses**, e.g. Israel/Palestine terrorism; U.S. Election

Avalanche Insights (Intern)

Providence, RI

CLIENT ENGAGEMENT TEAM

Fall 2021

- Analyzed free-response language data to gauge views of US voters

Meta (Intern x3)

New York, NY / Seattle, WA

ARTIFICIAL INTELLIGENCE APPLIED RESEARCH – PYTHON

Summer 2021

NATURAL LANGUAGE UNDERSTANDING TEAM – PYTHON, SQL

Summer 2020

MONTHLY BILLING TEAM – PHP, JAVASCRIPT

Summer 2019

- Helped develop machine learning model for abstractive document summarization
- Implemented pipeline for programmatic data labeling

BlueBonnet Data (Fellow)

Memphis, TN

DATA FELLOW - PYTHON, VAN

Fall 2020

- Built pipeline with interactive interface to track real-time voting data for U.S. Senate campaign

The Policy Lab @ Brown (Intern)

Providence, RI

DATA SCIENTIST INTERN – R

Spring 2019

- Targeted traffic violation payments in New Orleans; redesigned Rhode Island DMV forms for compliance

Education

Brown University

Providence, RI

B.S., APPLIED MATH; COMPUTER SCIENCE; BEHAVIORAL DECISION SCIENCES

September 2017 - May 2022

- GPA: 4.0 / 4.0
- Phi Beta Kappa, Sigma Xi, Magna Cum Laude, Honors, National Merit Winner

Projects

bias.bet

2,000+ users

ASSESSMENT FOR RISK AVERSION

February 2025

- User assessment for classic economic biases (risk aversion, risk seeking, decreasing marginal utility)
- Live at **bias.bet**

Banzhaf Power in Hierarchical Voting Games

2 citations

AAMAS (INTERNATIONAL CONFERENCE ON AUTONOMOUS AGENTS AND MULTIAGENT SYSTEMS) 2024

May 2024

- First author on paper introducing a novel generalization of BPI which provides exponential computational savings to standard BPI
- BPI is a method of measuring the power of voters in voting games, e.g. the US electoral college or ensemble machine learning models
- As a sample application, we apply our algorithm to sentiment analysis in sentences
- Paper is accessible at **ArXiv.org**

Bradshaw turnout tracker

1,500+ precincts

LIVE ELECTION FORECASTING

November 2020

- Turnout tracker for the 2020 Tennessee Senate election
- Takes live data from volunteers at precincts across the state + historical county turnout data to predict the result
- Calculated race results within 1 point faster than any news station called the race