

# John Randolph

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## Experience

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### Meta - Marketplace AI

SENIOR SOFTWARE ENGINEER – PHP, IOS, ANDROID, REACT, REACT NATIVE

New York, NY

October '24 - Present

- Owned UI and built AI infrastructure for **Marketplace AI assistant** with **50M users**
- AI productivity lead; owned engineering adoption of new AI tooling at the **org level**

### Meta - Facebook Integrity

SENIOR SOFTWARE ENGINEER – PHP, IOS, ANDROID, REACT, C

New York, NY

August '22 - October '24

- Owned all user-facing **Misinformation Controls**; architected algorithm changes to remove **600M posts/day** for **400M U18 users**
- Lead engineer for Facebook **Community Notes**; contributed to **consensus algorithm** design; **led 3 other engineers**
- Lead engineer for **Search Blocks** that prevent **17M searches/day** (e.g. suicide, illegal activity)
- Contributor to emergency real-time responses to Israel/Palestine conflict and U.S. Election

### BlueBonnet Data (Senate Campaign)

Memphis, TN

Fall '20

DIRECTOR OF DATA - PYTHON, VAN

- **Top-ranking data officer** on campaign for U.S. Senate; reported to campaign manager and **led team of data scientists**
- Targeted campaign efforts (ads, texts, visits, etc) using voter data; built data pipelines to track real-time voting data

### Meta (Intern x3)

New York, NY + Seattle, WA

Summers '19, '20, '21

AI APPLIED RESEARCH, NLP UNDERSTANDING TEAMS – PYTHON, SQL, PHP, JAVASCRIPT

- Developed machine learning model for abstract document summarization
- Implemented pipeline for programmatic data labeling

### The Policy Lab @ Brown (Intern)

Providence, RI

Spring '19

DATA SCIENTIST INTERN – R

- Optimized traffic violation payments in New Orleans to reduce 600M in lost revenue

## Education

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### Brown University

Providence, RI

September '17 - May '22

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

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

## Projects

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### bias.bet

600+ users

February '25

ASSESSMENT FOR RISK AVERSION

- Game-like assessment for classic economic biases
- Other projects at [johnrandolph.com](http://johnrandolph.com)

### Banzhaf Power in Hierarchical Voting Games

2 citations

May '24

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

- First author on paper
- This paper bridges computer science and game theory
- Novel generalization of Banzhaf power (a measure of power in voting games) with exponential savings
- Paper is accessible at [arXiv.org](https://arxiv.org)

### Bradshaw turnout tracker

1,500+ precincts

November '20

LIVE ELECTION FORECASTING

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

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**Interests** Professional Ultimate Frisbee player (4x world, 4x national champion); padel; alpine skiing