John **Randolph**

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Experience

Meta - Marketplace AI
New York, NY

SENIOR SOFTWARE ENGINEER – PHP, iOS, ANDROID, REACT, REACT NATIVE — 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
New York, NY

SENIOR SOFTWARE ENGINEER – PHP, iOS, ANDROID, REACT, C — 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

DIRECTOR OF DATA - PYTHON, VAN — Fall '20

- Top-ranking data officer on campaign for U.S. Senate; reported to campaign manager and **led 2 other 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

AI APPLIED RESEARCH, NLP UNDERSTANDING TEAMS – PYTHON, SQL, PHP, JAVASCRIPT — Summers '19, '20, '21

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

The Policy Lab @ Brown (Intern)
Providence, RI

DATA SCIENTIST INTERN – R — Spring '19

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

Education

Brown University
Providence, RI

B.S., APPLIED MATH, COMPUTER SCIENCE, BEHAVIORAL DECISION SCIENCES — September '17 - May '22

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

Projects

bias.bet
600+ users

ASSESSMENT FOR RISK AVERSION — February '25

- Game-like assessment for classic economic biases
- Other projects at **johngrandolph.com**

Banzhaf Power in Hierarchical Voting Games
2 citations

AAMAS (INTERNATIONAL CONFERENCE ON AUTONOMOUS AGENTS AND MULTIAGENT SYSTEMS) 2024 — May '24

- 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**

Bradshaw turnout tracker
1,500+ precincts

LIVE ELECTION FORECASTING — November '20

- 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