

Demarri Dosunmu

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Education

Johns Hopkins University, Baltimore, MD Expected July 2028
Computer Science (BS/MSE); Mathematics (BA)
Computer science coursework: Intermediate Programming; Computer System Fundamentals; Algorithms and Data Structures; Intro Algorithms; Machine Learning; Natural Language Processing; Theory of Computation; Probabilistic Models of the Visual Cortex.
Mathematics coursework: Honors Multivariable Calculus; Honors Linear Algebra; Honors Analysis; Honors Analysis II; Honors Complex Analysis; Honors Algebra I.
Additional coursework: The Ethics of Artificial Intelligence and Automation; First-Year Chinese (Fall 2026, in progress).

Research Experience

Undergraduate Research, Johns Hopkins University

Advisor: Kristina Gligorić

- Research on eliciting and measuring users' conceptualizations of AI through user prompts; coauthor of the manuscript listed below.

Intern, Joel Optimistic, LLC

June – Aug. 2023

Largo, MD

- Adapted and implemented Harvard's Onnela Lab digital phenotyping system in collaboration with Kola Ogunlana, Ph.D.
- Processed 10,000+ mobile data points and improved workflow usability for ongoing behavioral research.

Manuscript in Preparation

Dosunmu, Demarri, and Kristina Gligorić. *Eliciting and Measuring AI Conceptualization from User Prompts*. In preparation for submission to NAACL.

Professional Experience

Founder & Developer, Polemic, LLC

July 2024 – Present

Washington, DC | polemic.org

- Founded and developed a platform for philosophy, culture, and politics, attracting 300+ registered users and 2,000+ monthly visitors.
- Supported 65,000+ words of user-generated content and 50+ active discussions weekly.
- Directed administration, finances, marketing, and editorial strategy; built a community platform with topic forums, profiles, and discussion features.

Electrical Engineering Intern, MCDean Intelligence

July – Aug. 2024

Washington, DC

- Tracked and verified compliance for 150+ material requisitions supporting traffic signal construction contracts and Department of Transportation requirements.
- Created and managed 40+ invoices for multi-phase engineering projects; automated spreadsheets reduced processing time by 20%.
- Developed Excel formulas to streamline data entry and contract tracking.

Administrator & Head Developer, Relay Minecraft Network

Oct. 2020 – June 2024

Washington, DC | [Project portfolio](#)

- Developed a multi-server Java network serving 55,000+ unique users, with 25 custom mini-games and 85,000+ lines of code across five repositories.
- Built leveling, cosmetics, collectibles, rankings, leaderboards, subscriptions, profiles, and arenas.
- Maintained network performance and security and supervised volunteer moderators.

A/V Design and Collaboration Spaces Intern

Feb. – June 2023

The George Washington University | Washington, DC

- Created and deployed an application allowing professors and technicians to control 200+ audiovisual devices across campus spaces.

Independent Mathematics Research

Prime Distribution and Number Theory

2026

- Investigated prime distribution through modular arithmetic, the Chinese Remainder Theorem, primorials, sieve-style counting, and asymptotic estimates.
- Developed an exploratory write-up examining approaches to the twin-prime, Goldbach, and Legendre conjectures and primes of the form $n^2 + 1$.
- Discussed the work with Professor Yiannis Sakellaridis at Johns Hopkins University.

Technical Projects

JHU SGA Website | jhusga.org | [Source code](#)

Next.js, React, TypeScript, PostgreSQL, Prisma

- Developed and deployed an AI-assisted, open-source platform for student government documents and discussion, with an archive of legislation, meeting minutes, and governing documents.
- Integrated a daily Google Drive synchronization pipeline that detects content changes, preserves document revisions, and indexes passages for full-text search.
- Added natural-language question answering with quotations checked against source text; cached answers expire when their underlying evidence changes.
- Incorporated revision-aware citations and stale-claim detection, alongside an anonymous discussion forum with university-email verification and moderation records.

Fright Tales | [instagram.com/frighttales](https://www.instagram.com/frighttales)

Feb. – Apr. 2024

- Created an automated short-form video pipeline combining Reddit data, AI transcription, and video editing tools.
- Produced 100+ videos and increased Instagram engagement by 35% over two months.

GPTutor | Android SAT Math Application

June – July 2023

- Designed and deployed an app with 700+ SAT math practice questions, customizable study-session lengths and question types, and progress tracking.
- Reached 150+ active student users during pilot testing.

Combat Analysis Mod | [Source code](#)

Mar. 2018 – June 2021

- Released open-source Minecraft tools for real-time combat performance statistics and session tracking, adopted by 1,000+ players.

Additional Open-Source Minecraft Mods

- **Chat Control:** Advanced custom chat filters for managing in-game messages.
- **Bridging Analysis:** Live bridging statistics, bridge-type identification, and session recording.

Leadership & Service

WSE Senator, Johns Hopkins University Student Government Association.

Website initiative: jhusga.org; focus on transparency, availability, and student engagement.

Editorial Board Member, Prometheus.

Executive Board Member, Hopkins Political Union.

Conference Presentation

Dosunmu, Demarri. “Only Libertarianism Coheres with the Common Self.” Prometheus 2026 Conference, 2026. Presentation recording, slides, and paper.

Technical Skills

Programming: Java, Python, JavaScript, TypeScript, SQL, C, C++, C#, HTML, CSS.

Web development: React, Next.js, Node.js.

Databases & infrastructure: PostgreSQL, Prisma, MongoDB, Firebase, AWS.

Additional tools: Microsoft Excel; spreadsheet automation; AI-assisted development.

Languages

English (native); Spanish (fluent); French (professional proficiency); Chinese (elementary; First-Year Chinese in progress, Fall 2026).