

Shriyan Yamali

Newark, DE | in/shriyanyamali | shriyanyamali.com | yamalishriyan@gmail.com | (302) 509-8864

EDUCATION

Newark Charter High School	Sept 2023 – May 2027
GPA: 4.0/4.0	Newark, DE
• Activities: Business Professionals of America President, Computer Science Honor Society President, Mock Trial.	
• Honors: Gold Level President's Volunteer Service Award, Distinguished Honor Roll, AP Scholar with Distinction.	

EXPERIENCE

University of Michigan FP Lab	June 2025 – Present
<i>Lab Member</i>	Remote
• Contributing to PhD level research on type theory at the Future of Programming Lab under Professor Omar.	
• Developing Hazel, a live functional programming environment in Reason that supports editing, evaluating, and type-checking programs with typed holes, leaving no meaningless editor states.	
Stanford Law School	June 2024 – Present
<i>Programming Intern</i>	Remote
• Developed a four-phase Python pipeline using Pandas, PyPDF2, and Regex that scrapes the European Commission's Competition Case Search, downloads decision PDFs, and converts them into a text corpus.	
• Batched the corpus through Google Gemini, via the GenAI API, to automatically isolate every relevant market definition and consolidate them into a database of 600 unique cases, used to evaluate monopolistic behavior.	
• Building JurisMercatus, a website with 4000+ market definitions, made with Next.js, TypeScript, and Tailwind CSS, that performs semantic searches, using OpenAI embeddings and the Pinecone API for vector indexing.	
• <i>Project Link:</i> jurismercatus.shriyanyamali.com	
Dartmouth College	July 2024 – Jan 2025
<i>Assistant Editor</i>	Remote
• Proofread an ICLR submission through two revision cycles, ensuring all 31 pages met the conference formatting rules, were grammatically sound, and maintained consistent terminology, notations, and citations throughout.	
• Built 2 LaTeX tables that distilled 100,000 pairwise evaluation instances from 12 judge LLMs (GPT, Claude, Gemini families) and 40 candidate models into the core metrics: repetition stability, position consistency, and preference fairness.	
University of Pennsylvania Carey Law School	July 2024 – Aug 2024
<i>Summer Intern</i>	Philadelphia, PA
• Built LexFlow, a Python tool that generates T-shaped graphical models showing how legal principles exert force on an act type based on user-defined attributes, used in research, legal articles, and policy evaluation.	
• Engineered a system where user inputs are converted into arrows with width, length, and area calculated using weighted geometric formulas, which were later purchased by the University of Pennsylvania Carey Law School.	
• Used Matplotlib for diagram rendering, NumPy for numerical computation, and implemented vertical positioning algorithms and force-balancing mechanics to ensure accurate vector graphic placement.	
• <i>GitHub Repository Link:</i> shriyanyamali/LexFlow	

PUBLICATIONS

- S. Yamali. "Lextract: A Python Pipeline for the Automated Extraction of Market Definitions". *Journal of Open Source Software, Forthcoming*, 2025, <http://dx.doi.org/10.2139/ssrn.5576990>.
- S. Yamali. "Disentangling *Citizens United* and *SpeechNow.org*: Independent Expenditures and the Rise of Super PACs". *Working Paper*, 2025.

AWARDS

- First Place in Computer Programming Concepts** (Business Professionals of America NLC, 2025)
Placed 1st out of 7,450+ participants nationwide in an exam testing algorithms, Python, Java, JavaScript, web development, SQL, version control, programming paradigms, debugging, testing, and logic-based problem solving.
- First Place in Information Technology Concepts** (Business Professionals of America NLC, 2025)
Placed 1st out of 7,000+ participants nationwide in an exam testing IP, DNS, ports, firewalls, cybersecurity, hardware and software, cloud computing, data and information processing, storage systems, system architecture, and digital ethics.