Nithin Venkatramanan

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Education

Brown University — Providence, RI
Bachelor of Arts, Computational Biology & Economics — *2026 – 2030*
Activities: Brown Healthcare Investment Group, Brown Initiative for Policy, Brown Political Union

Nashua High School North — Nashua, NH
GPA: 4.0 UW/4.98 W | SAT: 1560/1600 | PSAT/NMSQT: 1520/1520 — *2022 – 2026*

Experience

Chief Policy & Financial Officer — Jun. 2025 – Present
EconEd (501(c)(3) Financial Literacy Nonprofit Organization)
- Led advocacy for successful statewide financial-education mandate at New Hampshire State House
- Healthcare-finance curriculum reaching 2,000+ students across 64 chapters; $25,000 raised; recognized by Nashua Mayor Jim Donchess, NH Governor Kelly Ayotte, Princeton Prize in Race Relations committee

Vice Chair — Aug. 2022 – Present
High School Democrats of America, Nashua Branch — *Nashua, NH*
- 5 voter-registration drives registering 1,000+ residents; 3 bipartisan town halls with 100+ attendees each
- Coordinated voter outreach and canvassing for municipal and local elections

Biomedical Research & Development Intern — Jun. 2024 – Aug. 2024
MarvelBiome, Inc. (biomedical technology series-C startup)
- Western blots, mammalian cell culture, passaging, iPSC differentiation, and 3D neuronal cultures for novel Alzheimer's therapeutic development

Research

Health Policy & Economics Researcher — 2026 – Present
CAHPR @ Brown University School of Public Health, Joint w/ Harvard Kennedy School — *Providence, RI*
- Python FDA Orange Book platform parsing historical annual editions/supplements since 1980; linked patents, exclusivities, orphan-drug indications, product removals, and formulation differences
- Policy/economic analysis of generic competition, market entry, drug availability, and federal pharmaceutical incentives

Clinical & Computational Nephrology Researcher — Sep. 2025 – Present
Ishibe Lab, Yale School of Medicine — *New Haven, CT*
- Xenium spatial transcriptomic analysis of FSGS tissue microarrays; cell-type–resolved profiling of podocyte injury and proteinuric kidney disease
- R/Python pipeline integrating Xenium spatial transcriptomics across 3 FSGS disease groups; automated cell-to-sample mapping, QC, clustering, podocyte-specific analysis

Computational Biology Researcher — May 2025 – Apr. 2026
Mattoo Lab, Purdue University — *West Lafayette, IN*
- R pipeline stratifying genes by protein turnover and expression dynamics across time-resolved datasets
- Gene ontology/pathway enrichment linking transcriptional and post-transcriptional behavior to cellular function

Computational Biochemistry Researcher — Apr. 2025 – Feb. 2026
Fiehn Lab & West Coast Metabolomics Center, University of California, Davis — *Davis, CA*
- Python backend dev. for MassCube/MassWiki (LC-MS/MS workflows) and large-scale metabolite annotation
- Probabilistic spectral matching with m/z and retention-time error modeling across heterogeneous datasets

Technical Skills

Programming: Python, R, Java | **Software:** Excel, Word, PowerPoint | **Languages:** English, Tamil, Spanish