Michael Nath

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Education

Stanford University, Stanford, CA
B.S. Biomedical Computation, Admitted Student | 09/2021 – 06/2025

Stuyvesant High School, New York, NY | 09/2017 – Present
Advanced Regents Diploma
Relevant Coursework: Genetics Research, Cancer Research, AP Computer Science A,
Organic Chemistry, Systems Level Programming

Professional Experience

CMU Computational Biology Summer Program, Pittsburgh, PA | 06/2020 – 07/2020
Full Ride Scholarship Recipient
- Implemented key algorithms of computational biology in team of 4 at 6-week camp.
- Assembled Pittsburgh microbiome genome and COVID-19 evolutionary tree with Golang.
- Won best final project: computationally locating transcription factor binding sites.

MIT Lincoln Lab Radar Intro for Rising Engineers Summer Program, Boston, MA | 06/2020 – 07/2020
Data Analyst and Team Facilitator
- Introduced to RADAR technology to conduct experiments in team of 5 at 2-week camp.
- Executed Jupyter notebooks to analyze Fourier transforms and collect doppler and range data.
- Performed final project on using ranging to detect common bathroom products.

Google Mentorship Program, New York, NY | 12/2020 – 06/2020
Project Captain and Frontend Engineer
- Led team of 4 engineers to streamline car search for consumers through user-friendly app.
- Integrated SQLite, Flask, and React technology to produce mock-ups for Google employees.

Molecular Biology Lab at John Jay College for Criminal Justice, New York, NY | 06/2019 – 04/2020
Student Researcher
- Researched effects of green tea catechins on miR-125b-5p expression in breast cancer cells.
- Maneuvered DAVID software, hemocytometer, and qPCR machine during experimentation.
- Presented research paper at NYC science fair and Westminster Research Conference.

Extracurricular Activities

Stuyvesant Proteomics Team, New York, NY | 02/2019 – Present
President
- Rekindle interest in proteomics by annotating key proteins with Jmol and 3D-printing result.
- Presented Aquaporin-4 M1 and M23 isoform research at regional symposium.

Stuyvesant Science Bowl Team, New York, NY | 09/2017 – Present
Vice President
- Invent buzzer analytics to optimize team plays in jeopardy-style matches.
- Lead B team in regionals at Hunter College High School and invitationals across NYC.

Skills

Technical: Python, JavaScript, Golang, Blender, Jmol, DAVID, BLAST, 90+ WPM
Soft: Collaborator, Leader, Curious, Diligent, Multilingual