

Dylan Tom

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Education

Cornell University, Ithaca, NY, Expected Graduation 2025

GPA 3.967 | B.A. in Computer Science and Mathematics | Minor in Business

Relevant Coursework: Linear Algebra, Object Oriented Programming, Data Structures, Discrete Structures, Data Science w/ Machine Learning

The Bronx High School of Science, Bronx, NY, Graduated 2021

GPA 4.0 | Advanced Regents Diploma w/ Honors

Relevant Coursework: Multivariable Calculus, AP Physics C (5), Quantitative Chemical Analysis, AP Calculus BC (5), AP Microeconomics (4), AP Macroeconomics (5)

Experience

Hack4Impact, Cornell University

February 2022 – Present

Full Stack Developer, Farmworker Justice

- Utilized D3.js to create dynamic visualizations including maps and line graphs
- Implemented preprocessing, connecting backend and MongoDB for future automation of newer datasets
- Worked in small sub teams of 6 developers where code quality and documentation were emphasized

Cosgrove and De Vlaminck Lab, Cornell University

January 2022 – Present

Undergraduate Researcher, under guidance of David McKellar, PhD candidate

- Utilized an open-source pipeline, scib, to analyze performance of various data integration and dimensionality reduction methods
- Gained experience with command line operations and modern bioinformatic analysis techniques

Nelson & Tom Maintenance Inc., New York City

June 2021 – August 2021, January 2022

Electrician Helper

- Performed electrical installations including wiring and lighting for 10+ residential and commercial projects
- Operated power tools, hand tools, and specialized electrical equipment
- Prepared and organized inventory to streamline workflow productivity by 33%

Lek Lab, Yale University

February 2019 – June 2021

Research Assistant, under guidance of Dr. Monkol Lek

- Interpreted loss of function genes from nonsense mutations and analysis of protein domains to assess current pathogenicity assessments
- Developed an artificial intelligence agent using a greedy heuristic algorithm in C# for Hearthstone

Projects

Cars 4: Not a Pixar Movie

October 2021 – December 2021

- Performed data filtering, implemented preprocessing, and created visualizations on an open-source dataset with 400K+ instances and 20+ features
- Trained linear regression and K-neural network models to predict prices and manufacturers of used cars

Technical Skills*

Programming and Markup Languages: Python, Java, JavaScript, LaTeX, HTML, CSS, Julia, R, C#

Libraries: (JS) React, Typescript, Express.js, Node.js, D3.js; (Python) Pandas, NumPy, Matplotlib, ScanPy, SciPy

Tools and Software: Git, Jupyter Notebook, MongoDB, Ensembl, ClinVar

*In order of proficiency