Maxx Yung

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Education

- **University of Pennsylvania (3.80 GPA)** 08/2023 - 05/2027
  - BSE in Materials Engineering, Minor in Computer Science and Entrepreneurship.
  - Clubs: Wharton Venture Labs, Wharton Venture Capital and Private Equity Club, Penn Startup Accelerator, Penn Assistive Devices and Prosthetic Technologies.
- **Stanford School of Medicine (3.90 GPA)**: Neuroscience and Neurosurgery 2023 Cohort 07/2023 - 08/2023

Experiences

Nanoneuro Systems Philadelphia, PA
Founder & CEO *10/2023 - Present*

- Leading a deeptech startup to create 10000x more efficient AI training chips using human brain cells.
- Secured collaboration with UPenn's Singh Center for Nanotechnology and $1,000,000 in grant funding.
- Advised by 3 UPenn professors specializing in BioE, CS, and EE & a Wharton entrepreneurship professor.
- Managed a team of 3 student interns and 3 co-founders, driving research and manufacturing initiatives.

S&L Aerospace Metals Flushing, NY
Materials Engineer Intern *01/2024 - Present*

- Led 3 aerospace contracts for landing gears and hydraulic systems for Lockheed, Boeing, and Sikorsky.
- Worked with financial, engineering, and manufacturing teams to ensure accurate delivery of parts.
- Assisted in operational efficiency for the manufacturing of drag beams for Sikorsky Black Hawk models.

Corder Neuroengineering and Computer Science Lab Philadelphia, PA
Undergraduate Researcher *06/2023 - Present*

- Co-developed A-SOiD (published on Nature Methods), the 1st open-source ML and computer vision pipeline for mice brain-to-behavior analytics pipeline with UPenn, Stanford & CMU labs.
- Developed a software pipeline for automated cell identification using OpenCV & Tensorflow, performing on-par wtih HaloAI (which costs $20,000/year) and saving 300+ hours of manual quantification.
- Reduced processing time by 97% for bulk microscopy imaging via pywinauto & pyautogui Python scripts.
- Surgically removed 20+ mice brains, mounted brain tissue, and imaged slices to research pain networks.

Raymond James Financial New York City, NY
Raymond James Electronic Trading (RJET) Extern *12/2023 - 01/2024*

- Engaged in team discussions to analyze government action on M&A activities to revise algo strategies.
- Studied Jet Blue & Spirit Airlines, Nippon Steel & U.S. Steel, and Microsoft & Activision mergers.
- Researched NYSE, NASDAQ, and IEX server colocation strategies used in high-frequency trading algos.

Fiveable Roslyn, NY
Content Writer → AI Content Engineer Intern *05/2023 - 09/2023*

- Designed an AI workflow for the largest US EdTech company, accelerating content output by 800%.
- Onboarded and co-directed a cohort of 100 summer content creators with the AI content workflow.
- Published over 50+ new long-form articles and 1000+ mock AP questions on 2023-2024 AP subjects.

Zhu Neuroscience Lab at SUNY Old Westbury Old Westbury, NY
High School Researcher → Lab Technician *06/2019 - 03/2023*

- Conducted a 5-year study discovering a direct biological link between opioids, diabetes, and Alzheimer's.
- Automated a neuronal analysis protocol with Python, saving 200+ hours of manual quantification labwide.
- Implemented molecular docking and simulation tools for in-silico drug discovery for the lab using Python.

Honors & Awards

- International Regeneron STS Semi-Finalist
- 2023 US AAN Neuroscientist Winner
- Stanford Neuroscience Conference Speaker
- 2x MIT Research Technology Conference Speaker
- Presidential Volunteer Service Award Gold
- NextChapter Startup Scholarship & Fellowship Winner
- Columbia Healthcare Hackathon 3rd Place Winner
- Princeton x Columbia Top 15 Northeast Student Startup

Skills & Interests

- **Skills:** Python (SciPy, Numpy, Scikit-learn, Matplotlib, Tensorflow), Solidworks, SQL, Figma (Design), Advanced Excel.
- **Interests:** Stock Investing, Nanotech, Space & Biotech Startups, Blogging, Badminton, Reef Tanks, Rock Climbing.