Rohan Moniz

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EDUCATION

University of Pennsylvania, *School of Engineering and Applied Science,* Philadelphia, PA   **Expected May 2025**
Bachelor of Science in Engineering, Computer Science and Mathematics   **Cumulative GPA: 3.90/4.00**

Relevant Coursework:

- Honors Calculus II (Proof-based Multivariable Calculus)
- Honors Calculus III (Proof-based Linear Algebra)
- Programming Languages and Techniques (OCaml and Java)
- Data Structures and Algorithms (Java)
- Mathematical Foundations of Computer Science (Discrete Math)
- Probability (Statistics)

Honors/Awards

- Dean's List (May 2022)

Montclair Kimberley Academy (MKA), Montclair, NJ   **September 2017 – May 2021**
High School Diploma   **Cumulative GPA: 3.99/4.00**

Honors/Awards

- Recipient of Nazarian Prize for Mathematics. Awarded to a senior who has demonstrated excellence in mathematics
- Recipient of Rensselaer Polytechnic Institute Medal. Awarded jointly by the Math and Science Departments to a junior who shows superb performance in the study of mathematics and the sciences

TECHNICAL SKILLS

Python, Java, OCaml, Git, Unix, Docker, Jenkins, HTML, CSS, JavaScript, R, LaTeX, Microsoft Office Suite, Jira

PROFESSIONAL EXPERIENCE

Roku, Inc., *Software Engineering Intern,* San Jose, CA   **May 2022 – August 2022**

- Worked within Advertising Engineering group, part of Roku's $2B+ platform business
- Built an automated validation framework using Python for Automatic Content Recognition (ACR) and Dynamic Linear Ad insertion (DLA), core technologies of Roku's advertising platform
    - Utilized tools such as Jenkins, Docker, Superset, Presto, and GitLab
- Leveraged Roku OS infrastructure to regularly run ACR validation framework across 10 TV platforms with over 1,000 models between them, ensuring that ACR is not impacted by firmware releases and maintaining business continuity
- Collaborated daily within and outside of team and participated in meetings to learn more about the business and technical aspects of Roku's advertising platform

PROJECT EXPERIENCE

VapeEscape, *Co-founder*   **July 2019 – June 2020**

- Developed an affordable and practical solution for schools and businesses to be notified of vaping or smoking in unauthorized areas such as bathrooms as part of a four-person team
    - Built a basic iOS app alert notification system connected to the Raspberry Pi-based prototype
- Created a comprehensive twenty-page business plan for commercializing the product
    - Analyzed the competitive landscape, determined product positioning and conceptualized a go-to-market strategy including a tailored pricing plan and a two-year budget
- Recipient of two team awards at the 2019-20 Conrad Challenge, a global STEM innovation competition
    - Winner of the "Eliminating and Reducing Teen Vaping" category
    - Global Collaborator Award – team consisted of high school students from NY, NJ and the Dominican Republic

LEADERSHIP AND VOLUNTEER ACTIVITIES

Penn Undergraduate Math Society, *Board Member*, Philadelphia, PA   **January 2022 – Present**

- Promote mathematics on Penn's campus by planning and advertising events to the first-year class

MKA Math Club, *Co-founder*, Montclair, NJ   **September 2018 – May 2021**

- Founded club for math enthusiasts; planned and led weekly sessions to improve problem solving skills; improved student engagement, participation and outcome in math competitions

MKA Education Technology Team, *Student Leader*, Montclair, NJ   **November 2018 – May 2021**

- Provided a student perspective on the use of technology as an effective learning tool to school management; trained and guided students and faculty on technology use; tested hardware and software before adoption by the school

Toni's Kitchen, *Volunteer,* Montclair, NJ   **March 2016 – March 2020**

- Unloaded and organized groceries and donated goods, prepared and served meals to patrons at local soup kitchen

INTERESTS

Tennis • Cross-country • Chess • Robotics • String orchestra • Researching, sourcing and reselling limited-edition sneakers