

Syed Hannan Shah

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EDUCATION

New Brunswick, NJ

Rutgers University Honors College

September 2022 - June 2026

- Bachelors in Computer Engineering with a double major in Computer Science. College GPA : 3.44/4.0

SKILLS

Languages : Java, Python, Matlab, SQL, HTML/CSS, Javascript

Tools : Git, AWS, Snapgene, Blender, Solidworks

Process : Scrum, Agile

EMPLOYMENT / EXPERIENCES

Aresty Research Assistant

Waksman Institute of Microbiology

June 2023 - August 2023

- Conducted study on functionality of newly developed agrobacterium binary vectors with kanamycin resistance and β -glucuronidase (GUS) genes for plant transformation.
- Utilized binary vector system with **SnapGene** for obtaining transgenic plants and efficiently delivering T-DNA to plant nucleus through Type IV secretion system
- Successfully transformed tobacco leaves by employing kanamycin resistance for selection and confirming GUS staining in calli leaves.

Brakes And Control Engineer

Rutgers Formula Racing

September 2022 - Present

- Successfully networked with automotive industry leaders, securing \$100,000+ funding and 15+ sponsors for annual fundraising.
- Developed **MATLAB** algorithm using thermal calculations from Michigan 2018 Formula Car, serving as framework for All-Electric Vehicle Car design.
- Utilized orbital sander and 3D modeling with **Solidworks** to precisely reduce pipes and determine optimal placements in the car's truss structure.

Research Assistant

Stevens Institute of Technology

June 2022 - September 2022

- Utilized an electrostatic printer with **Blender** to fabricate nanofibers, evaluating different material compositions to determine the optimal one.
- Transferred and stored nutrient-rich solution for creating cellular porosity in trabecular bone.
- Operated a digital vortex mixer to catalyze enzymatic solution, with the aim of utilizing it for applications in spinal cord endothelial cell regeneration.

Insurance Agent

AHS Insurance

September 2018 - Present

- Created a dynamic website using **HTML**, **CSS**, and **Javascript** that offers customers an interactive platform to explore a diverse range of 11 insurance plans.
- Developed a comprehensive digital database that efficiently prioritizes 500 leads, containing essential details about their background, eligibility, and optimized premiums across multiple insurance plans.

PROJECTS

AWARDS

Questbridge National College Match Finalist :

- One out of 5,613 selected from 16,500 low-income, first-generation students for professional mentorship.

Dean's Scholarship and Dean's Promise Scholarship :

- Academic merit scholarships awarded from Honors College covering educational expenses.