

EDUCATION

Columbia University, Fu Foundation School of Engineering and Applied Science

Major: Mechanical Engineering

Expected Graduation: May 2023

GPA: 3.5

ENGINEERING EXPERIENCE

Creative Machines Lab

Research Assistant to PhD Student

Summer 2022-Present

- Developing a new 3D printing process by creating and testing mechanisms that create an automated additive manufacturing process that incorporates SLA and SLS techniques.

Genius Gems

Associate

April 2020-June 2022

- Designing and manufacturing educational tools and projects using a makerspace, maintaining and operating a 3D printer farm and laser cutter and creating a curriculum and conducting classes to teach children how to use TinkerCAD.

Engineering Projects

- Designed an educational model to help visualize a chemistry concept. Patent Number: US11,609,305
- Built a bipedal walking robot using raspberry pi and servos for actuation.
- Designed a mechanism with an arduino to calculate required force to stay upright on the subway.
- Built self-contained video game that runs from a micro-controller.
- Created educational tool to practice basic addition and subtraction using only mechanical components.

PROFESSIONAL EXPERIENCE

The Baupost Group

Application Development Team- Information Technology Intern

Summer 2021

- Wrote SQL stored procedures to navigate investment data
- Participated in web development process using a modified Agile methodology

Columbia Bartending Agency

Private Bartender

Spring 2022-Present

- Mixing and serving drinks, managing food service, and setting and cleaning up at private events.

SKILLS

- **3D Printing and Modeling** : Proficient in Solidworks, Fusion 360, AutoCad and Illustrator
- **Data Engineering** : Proficient in SQL
- **Web and Application Development** : Experienced in Java, Python, MATLAB, Latex, HTML, JavaScript, CSS and programming for Arduino micro controllers
- **Manufacturing** : Trained on CNC Mill, CNC Lathe, soldering, handtools

EXTRACURRICULARS

Gosh Yarn It: Knitting Club

Pattern Consultant, President

2020-Present

- Teaching skills to members, hosting workshops, and organizing weekly meetings, specialized events and community outreach opportunities
- Managing social media accounts and correspondence with members

Columbia University Fencing

Team Armorer

Fall 2021-Spring 2022

- Assisted the fencing team with maintenance and repair of fencing equipment