

ALEXANDRA HSUEH

Computer Science and Mathematics Dual Major

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EDUCATION

Rensselaer Polytechnic Institute (RPI), Troy, NY

Expected Graduation Year: 2022

B.S. Computer Science/Mathematics

GPA: 3.76

Skills: C++, C, Java, Python, LaTeX, VBA, MIPS, Microsoft Office

Courses in Progress:

- Introduction to Complex Variables, Earth and Sky, Operating Systems, Speech Communication

Courses Taken:

- Computer Science: Data Structures, Foundation of Computer Science, Computer Organizations, Introduction to Algorithms, Principles of Software, Introduction to Artificial Intelligence, Design and Analysis of Algorithms
- Mathematics: Multivariable Calculus and Matrix Algebra, Introduction to Differential Equations, Foundation of Analysis, Numerical Computing, Linear Algebra

WORK EXPERIENCE

Global Technology Analyst Intern – Bank of America – Jersey City, NJ

June 2019 – August 2019

- Collaborated with the GMOT Risk and Control team for Global Banking and Markets Technology
- Self-taught VBA in order to enhance their automation of reporting and did deep-dive analysis of technical change
- Built the foundation of the team's new space for providing reference guides, role descriptions and answers to frequently asked questions

Undergraduate Teaching Assistant for Introduction to Logic – Rensselaer Polytechnic Institute – Troy, NY

May 2020 – Present

- Held office hours and helped with marking homeworks and tests

PROJECTS

Automated Logic Processor and Creation Application – Rensselaer Center for Open Source

September 2019 – Present

- Developed code to construct/check logic statements/reasoning using Python and Kivy for the GUI and C++ for the logic engine

K-Map Generator – Intermediate Logic

January 2020 – April 2020

- Developed a Python program that teaches students to use K-Maps to simplify boolean expressions and verifies if the students have the optimal solution

AWARDS

Congressional Gold Medal Award – Washington D.C.

June 2018

- Completed over 600 volunteer hours and achieved goals in personal development and athletic skill over the course of three years

ORGANIZATIONS/CLUBS

HackRPI

November 2018 – Present

President, Executive Director of the Treasury, Freshman Representative

- Organized the three Spring 2019, Fall 2019, and Fall 2020 hackathons
- Managed the Sponsorship and Finance teams as well as four other teams to host the hackathons

ACM-W (Association for Computing Machinery Committee on Women in Computing)

September 2018 - Present

Mentorship Program Chair, Mentor

- Stepped up to organize the next round of the mentorship program to help freshmen adjust to campus

AWM (RPI's Chapter of Association for Women in Mathematics)

September 2018 – Present

President, Treasurer

- Manage funds for events in order to provide women in mathematics an inclusive environment to interact
- Collaborating with other clubs on events to give members more opportunities to make connections

Red & White

February 2019 - Present

Executive Director for Graduate Success

- Helped connect the RPI community and alumni connections through tours and campus events
- Stepped up to help graduating seniors by organizing events with companies to give them insight for the future

Upsilon Pi Epsilon Computer Science Honor Society

December 2019 - Present

Programming Contest/Sponsorship Chair

- Reached out to past sponsors and new potential sponsors in order to provide funding to the organization

WMP – (Women's Mentoring Program)

August 2018 - Present

- Mentored two incoming freshmen who share similar majors and prepared them for both campus and academic life