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: 3.81

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

Courses in Progress:
– Programming Languages, Database Systems, Distributed Systems and Algorithms, Introduction to Topology

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, Operating Systems
– Mathematics: Multivariable Calculus and Matrix Algebra, Introduction to Differential Equations, Foundation of Analysis, Numerical Computing, Linear Algebra, Introduction to Complex Variables

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

Undergraduate Teaching Assistant for Introduction to Algorithms – Rensselaer Polytechnic Institute – Troy, NY   August 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
– Organized events and funding in order to provide women in mathematics an inclusive environment to interact

Red & White   February 2019 - Present
Executive Director for Graduate Success
– Helped connect the RPI community and alumni connections through tours and campus events

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