

ALEXANDRA HSUEH

Computer Science and Mathematics Dual Major

@ alexandrahsueh@gmail.com

732-524-8054

Morganville, NJ 07751

in linkedin.com/in/alexandra-hsueh/

github.com/hsueha/

EDUCATION

Rensselaer Polytechnic Institute (RPI), Troy, NY

Expected Graduation Year: 2022

B.S. Computer Science/Mathematics

GPA: 3.79

Skills: C++, C, Java, Python, LaTeX, VBA, MIPS, Typescript, Javascript, HTML, CSS, Sitecore MVC, Microsoft Office

Relevant Courses:

- **Computer Science:** Approximation Algorithms, Machine Learning and Data, Database Systems, Distributed Systems and Algorithms, Operating Systems, Design and Analysis of Algorithms, Introduction to Artificial Intelligence, Introduction to Algorithms, Data Structures
- **Mathematics:** Advanced Calculus, Mathematical Analysis I, Introduction to Topology, Introduction to Complex Variables, Linear Algebra

WORK EXPERIENCE

Software Development Engineer Intern – Amazon - Seattle/Bellevue

June 2021 – Aug. 2021

- Took ownership of an infrastructure migration for issuance of gift cards to customers of the Chase Signature Visa card using Java, Typescript and AWS
- Collaborated with cross-team efforts, deep-dived on issues, and documented all of my efforts for future development

Technology II Co-op – FM Global – Rhode Island

Jan. 2021 – May 2021

- Collaborated with the Agile Marketing team to work on the Globalport and Public Websites using Typescript, Javascript, C# and the .NET framework

Undergraduate Teaching Assistant – Rensselaer Polytechnic Institute – Troy, NY

May 2020 – July 2021

- Introduction to Artificial Intelligence, Introduction to Logic, Introduction to Algorithms

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

June 2019 – Aug. 2019

- Collaborated with the GMOT Risk and Control team for Global Banking and Markets Technology
- Enhanced automation of reporting with VBA and did deep-dive analysis of technical change

PROJECTS

Monty Hall Research Project – Professor Bram, Rensselaer Polytechnic Institute

May 2021 – August 2021

- Designed online graphical interface to play Monty Hall using PHP, HTML, and CSS

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

September 2019 – May 2020

- 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

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