

Sarah Lim

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EDUCATION

The College of New Jersey (TCNJ) – Ewing, NJ

December 2021

Bachelor of Science: Computer Science

Minor: Mathematics

Cumulative GPA: 3.426 / 4.0; Dean's List: Spring 2019, Fall 2020

TECHNICAL SKILLS

- ***Programming Languages/Software:*** C/C++, Java, Python, HTML/CSS, Javascript, PHP, C#, SQL, PostGres, MATLAB, Assembly; Eclipse IDE, Sublime Text, OpenCV, Selenium, Visual Studio Code

RESEARCH EXPERIENCE

TCNJ Department of Computer Science, Research Assistant – Ewing, NJ

January 2019 – December 2019

- Studied the effects of cybersickness in a virtual reality environment in Unity Real-Time Development Platform utilizing scripts written in C#
- Recruited student test subjects to run through the virtual reality experiment using Oculus Go headset/controllers, heart rate monitor, and the pre/post Simulator Sickness Questionnaire to record sickness

RELEVANT PROJECTS

Story Teller

September 2020 – December 2020

- Designed a children-friendly voice-driven, web browser interface that is accessible to visually impaired users written in Javascript, HTML, PHP, and CSS
- Created a web interface where children can read picture description books provided in current library or book files from their local machine
- Primary designer/developer of the voice-driven interface using Javascript Web Speech API

NJ Forum

February 2020 – May 2020

- Created a more interactive and attractive solution for SRHub.org users, which is an online journal educating the local community on sustainability
- Redesigned SRHub.org website by developing a forum/surveys database-driven page and interactive user comments system with Javascript, HTML, PHP, PostGres, SQL, and CSS

Amazon Web Scraper

November 2020

- Created and implemented a web crawler using Selenium with Python
- Developed a customer review algorithm based on calculated thresholds to identify biased profiles

Multi-User Chatting Program

April 2020

- Implemented a command-line based server and client using socket programming written in C++
- Created a multiple chatting room server identifying which clients entered and exited the room

CAMPUS INVOLVEMENT

Association of Computing Machinery (ACM), General Member – Ewing, NJ

September 2018 – Present

TCNJ DIGIT.all, General Member – Ewing, NJ

September 2018 – Present

Kappa Theta Pi (KTP), Founder / Vice President – Ewing, NJ ***November 2019 – December 2020***

- Brought a community on campus recognizing students of all majors who share a similar passion for technology and provide service and philanthropy to the local community
- Co-led chapter and e-board meetings discussing upcoming fundraising and professional development events

Kappa Theta Pi (KTP), Hackathon Committee Logistics Director – Ewing, NJ ***August 2020 – November 2020***

- Created and managed a team through virtual meetings with the organizers, keynote speaker, sponsors, volunteers, and advisor discussing merchandise, day-of schedule, and logistics

AT&T Hackathon Participant – Ewing, NJ ***September 2019***

- Suicide Prevention project using machine learning and artificial intelligence to detect suicidal trigger words on social media posts
- Created a filter for social media text-based shares to prevent sensitive material from reaching vast audiences

Computer Science Volunteer – Ewing, NJ ***Fall 2019***

- Informed prospective students and visitors about the TCNJ Computer Science Research Program

CERTIFICATES / AWARDS

CITI Social/Behavioral Research Certificate ***February 2019 - Present***

- Studied the core human subjects research topics for social-behavioral-educational researchers
- Certified to test human subjects for research purposes

Kappa Theta Pi Presidential Award ***December 2020***

- Recognized by the President of the Kappa Theta Pi Professional Fraternity for outstanding leadership and service