

ELLA SAEMIN CHUNG

University of Virginia | Major: Computer Science & Linguistics
Expected Year of Graduation: 2021

EXPERIENCES

Incoming Software Engineering Intern • Howard Hughes Medical Institute Janelia Research Campus • May - August 2020

Software Engineering Intern • Howard Hughes Medical Institute Janelia Research Campus • May - August 2019

- Scientific Computing. Created new React.js components to integrate an interactive web application with the Janelia Webstation. Used POSTMAN to test and prototype REST interfaces. Aggregated data from multiple REST API's.

Undergraduate Research Fraser Lab • University of Virginia • January 2018 to May 2019

- Synthesized boron nanoparticle-based lipid probes

Summer Intern • Howard Hughes Medical Institute Janelia Research Campus • June - August 2016 & 2017

- Lavis Lab. Examining stability of Janelia Fluorophore™ dyes using HP-LC & LC-MS over multiple use cycles
- Hantman Lab. Analyzing data creating generating baseline data through machine learning algorithms for tracking mice movement

Regional Science & Engineering Fair • June 2013 to March 2014

- "The Effect of Structure of Earphones on the Intensity of Sound Going to the Tympanic Membrane"

AWARDS & RECOGNITION

University of Virginia • NanoSTAR Institute for Nanoscale and Quantum • May 2018

- Awarded a Summer Undergraduate Research Stipend

Freedom High School • June 2015 & 2017

- Recognized as the orchestra student of the year

George Washington University • Regional Science & Engineering Fair • March 2014

- Recipient of the Young Scientist Award for the study of "The Effect of Structure of Earphones on the Intensity of Sound into the Tympanic Membrane"

Representative • Howard Hughes Medical Institute Janelia Research Campus • 2014

- Invited to attend open conference at Janelia Campus for "Wacky World of Epigenetics" lecture

Representative • Lockheed Martin • November 2013

- Selected to represent Freedom High School at Lockheed Martin Women in Engineering Day

VOLUNTEER & LEADERSHIP

Tech Chair • Greens to Grounds • September 2019 - Present • Member 2017 - Present

- Maintaining of the Greens to Grounds website, updating members, communicating with personnel at UVA for orders

Culture Chair • Taiwanese Students Association • May 2018 - Present • Member 2017 - Present

- Organizing events to represent the culture at UVA, choreographing dances for culture shows, helping executive board spread awareness of TSA

President • Red Cross Club of Freedom High School • May 2014 – May 2017

- Augmented the club from 10 to 65 members over 3 years, represented Freedom HS in official Red Cross Events, initiated partnerships with various non-profit organizations (Mobile Hope, Loudoun Foster Care, etc.)

EXTRACURRICULARS

Tech Chair • Greens to Grounds • September 2019 - Present

Member • Computer & Network Security Club • September 2019 - Present

Member • Society of Women in Engineering • August 2018 – Present

Member • Women's Coding Circle at Janelia • July 2016 – Present

Member • AICHE UVA Student Chapter • September 2018 - January 2019

KEY SKILLS

JavaScript/CSS/HTML

React.js/POSTMAN/REST API/Version Control/Django Frameworks/Bootstrap/Heroku

Java & Python

Data Analysis

English & Korean Translation

Organic & Polymer Synthesis

Chromatography (HPLC, LCMS, GPC)

Spectroscopy (Fluorimeter, UV-Vis)

Recrystallization, distillation, Filtration