Alan Yu

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Education

Rutgers University, New Brunswick School of Arts and Sciences	**New Brunswick, New Jersey**
B.A. in Chemistry	May 2021
Minor in Computer Science	
GPA: 3.32	Dean's List Fall 2019 – Spring 2021

Certifications

- AT&T Summer Learning Academy Extern
- Introduction to Chemistry: Structures and Solutions (with Honors) from Duke University from [Coursera]

Relevant Coursework (Reports can be found on github.com/alanyu26)

- **Analytical Chemistry:** Introduced to filtrations, pH titrations, ion chromatography, and alkalinity of samples.
- **Organic Chemistry I:** Began with recrystallization and melting point analysis, gas and thin layer chromatography, simple distillations, synthesis of chemicals, and IR/NMR analysis of an unknown product.
- **Organic Chemistry II:** Conducted and analyzed a SN_2 synthesis, catalyzed click chemistry reaction, polymer reactions, organometallic chemistry, and finished with another IR/NMR analysis of an unknown product.
- **Instrumental Analysis:** Gathered experience with FTIR, GC, HPLC, UV-Vis, XRF, Chemometrics, Fluorescence, and ICP-OES analysis methods of samples with a strong focus on error analysis of the method(s) and equipment used.
- **Experimental Physical Chemistry:** Worked with decomposition kinetics, speed of sound in variable gases, magnetic susceptibility of transition metal complexes, photoluminescence, FT-IR, UV-Vis, and cyclic voltammetry.
- **Computational Chemistry:** Determined and analyzed properties of basic and semi-intermediate molecules via the use of Gaussian, Gaussview, and Amber16 on the Amarel cluster at Rutgers University's Office of Advanced Research Computing (OARC).

Skills

- **3-D Modeling:** Experience in FreeCAD and AutoCAD; Familiar with Onshape.
- **Adaptability**
- **Customer Service**
- **Inventory Management**
- **Languages:** English, Chinese, and German.
- **Programming:** Experience in Java, C, and MySQL; Familiar with HTML, JavaScript, and Python.

Work History

Stop & Shop	Pennington, NJ
Assistant Produce Manager	May 2023 – Present
Full Time Produce Clerk	

- Managing opening and closing shifts while executing company guidelines and planograms throughout the shift.
- Producing daily orders for upcoming operational day with floor and backroom inventory in mind.
- Rotating and organizing freshly delivered products on the sales floor and backroom to provide the best shopping experience for the customers.

Part-Time Grocery Clerk	December 2020 – May 2023

- Servicing the questions of customers with multiple locations of products requested and alternatives if shelves were empty.
- Creating end-caps with neatly placed products demonstrating the sale throughout the week.
- Organizing products delivered onto shelves with excess products placed into separate locations pertaining to each aisle.

Projects

- **Higher Lower Guessing Game:** Using JavaScript and HTML to prompt the user for a numerical input to create a range of values to guess the correct number while keeping track of the number of attempts, values guessed, and if the input was valid.
- **Molecular Mass Calculator (IN-PROGRESS):** Using Java, JavaScript, and HTML to ask for a chemical formula then fetching from a MySQL database of stored element names, mass, and atomic numbers to calculate the requested input.
- **Movie App:** Using arrays to insert, list, sort, and search for a movie providing the year and director with the option of seeing the ratings within a dataset in Java.