Scrappy Owl

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**OBJECTIVE**

Seeking opportunities to further practical lab experience and analytical data interpretation to support future academic and professional goals.

**EDUCATION**

**Kennesaw State University -** Kennesaw, GA Expected May 2027

*Bachelor of Science in Chemistry*  GPA: 3.3

**Relevant Courses:** Organic Chemistry I & II, Analytical Chemistry, Inorganic Chemistry, Instrumental Analysis, Scientific Research Methods in Chemistry

**PROJECTS**

**Synthesis and Characterization of an Organic Ester***, Organic Chemistry I* February 2025

* Synthesized an organic ester via acid catalyzed Fischer esterification and purified the product using distillation and recrystallization techniques.
* Verified product using IR and H NMR spectroscopy

**Water Hardness Testing by Titration,** *Analytical Chemistry* November 2024

* Analyzed 3 local water samples using EDTA titration to measure calcium and magnesium levels
* Found hardness levels between 110-185 ppm; results compared to EPA standards

**SKILLS**

**Laboratory:** Organic synthesis, recrystallization, distillation, titration, kinetic modeling

**Instrumentation:** UV-Vis, IR, spectroscopic analysis, sample preparation under inert atmospheres

**Software & Data Analysis**: ChemDraw, Microsoft Excel, MATLAB, SpectraSuite, Python

**WORK EXPERIENCE**

**Chemical Lab Student Assistant,** Kennesaw State UniversityAugust 2024 – May 2025

* Developed a technique for monitoring photochemical reactions on heterogeneous surfaces
* Modeled the kinetics of heterogeneous photochemical atmospheric reactions

**Laboratory Intern,** Exxon Research Group – Canton, GA January 2023 – May 2024

* Investigated gas-phase reactions on heterogenous industrial catalysts by
* Conducted IR and UV-Vis spectroscopy to assess catalyst performance

**ADDITIONAL WORK EXPERIENCE**

**Grocery Store Clerk,** Publix - Kennesaw, GA May 2024 – Present

* Recorded items purchased by customers into the cash register manually and with barcode reader
* Accepted payment from customers consisting of cash, credit or debit cards, and checks

**STUDENT ORGANIZATIONS**

**Student Affiliates of American Chemical Society**, Member