

# Miles Sitcawich

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## EDUCATION

### Vanderbilt University

Nashville, TN

Bachelor of Engineering, Chemical Engineering

May 2024

**Double Major:** Applied Mathematics, **Minors:** Computer Science, Physics, Chemistry

**GPA:** 3.99/4.00, graduated summa cum laude

**Honors:** W. D. Threadgill Distinguished Student Award, Dean's Award for Outstanding Scholarship, William A. Ma Award (Most Outstanding Sophomore in ChemE), 1<sup>st</sup> Place AIChE Poster Competition, Professor's Distinguished Junior Award, TBII, ΣΠΣ, ΠΙΜΕ, Dean's List, National Merit Scholarship Recipient, National AP Scholar, Minnesota Triple-A Award (Athletic, Academic, Artistic)

## EXPERIENCE / LEADERSHIP

### BlackRock

Atlanta, GA

Software Engineer I

August 2024 – Present

- Architected & implemented data analysis capabilities for Cachematrix Copilot, an AI assistant for a cash management platform
- Streamlined routine maintenance operations via a single point of entry for an application responsible for extracting, transforming, and loading data from eFront to Aladdin

Software Engineer Intern

June 2023 – August 2023

- Wrote 8 Cypress (component and E2E) tests for Notification Center, a micro-frontend embedded in multiple applications within Aladdin, totaling roughly 2,000 lines of code with at least 80% source code coverage
- During testing, found and fixed two bugs in the source code
- Contributed a pull request to Cypress open-source software

### Vanderbilt Men's Club Soccer

Nashville, TN

President

December 2022 – December 2023

- Organized and planned practices, games, tryouts, and transportation, in addition to designing and buying new uniforms
- Created and distributed hundreds of promotional posters to publicize our games/tryouts and increased our presence on campus

Secretary

December 2021 – December 2022

- Presided over team Instagram page and grew its following by 80%, took practice attendance, assisted president in setting up the field for practices and games, performed team laundry
- 15% tryout acceptance rate; 4 hours of practice each week and 6 games per semester

### Vanderbilt University

Nashville, TN

Undergraduate Teaching Assistant

January 2022 – December 2022

- Graded homework for Math 2300 Multivariable Calculus and held office hours for the Physics Department (fall '22)
- Graded exams & programming assignments and held office hours in CS 1104 Programming w/ Python (spring '22)

### Vanderbilt University, Young Lab, Chemical and Biomolecular Eng. Dept. (Focus: metabolic eng.)

Nashville, TN

Undergraduate Researcher

January 2022 – September 2022

- Performed cyanobacterial genetic transformation, metabolite extraction and derivatization, GCMS, and GCMS data analysis
- Used machine learning to improve lab's proprietary program, MUISCA, namely the sections that predict compound composition from molar mass and the validity of a potential compound from GCMS M1/M0 ratios
- Presented my research at AIChE Annual Student Conference in Phoenix and won 1<sup>st</sup> place in my poster competition division

## INDEPENDENT PROJECTS

### "Are You Smarter than a 5<sup>th</sup> Grader?" Quiz game

May 2022 – July 2022

- Used React and CSS to create a quiz game inspired by the TV show and YouTube video renditions
- Click through 10 questions, answer buttons light up green/red depending on choice, score tracked throughout

### Online Portfolio

May 2022 – July 2022

- Used HTML, CSS, and GitHub Pages to host a website about me with links to other projects

## INTERESTS, SKILLS, & CERTIFICATIONS

**Software:** (Proficient): C++, Python, Cypress; (Familiar): Java, MATLAB, HTML/CSS, React, Git, TypeScript, Redux

**Certifications:** FE Chemical, SChE ELA950, SChE ELA951, SChE ELA962

**Interests:** Soccer, chess, poker, ping pong, current events, exploring restaurants, fitness, aesthetics