

## KENNETH DEBACKER

**OBJECTIVE** I'm a chemist turned programmer seeking a goal-orientated workplace to continue learning, growing, and creating. I can think critically and pick up/adapt to new technologies and roles.

**SKILLS** Python, C++, CSS, HTML, JavaScript, PHP, SQL, BASH, MS Excel, Kivy Language

**EXPERIENCE** **NEATON MATHEMATICS LLC, ANN ARBOR, MI**

Web Application Developer, March 2019 - Present

- Designed education software for teaching mathematics to students, built user interface for students/teachers using HTML/CSS/JavaScript.
- Helped construct MySQL databases to keep track of students' progress/achievements and connected them to frontend code.

**SNYDER LAB, CHICAGO, IL**

Undergraduate Researcher, February 2017 – May 2018

- Published author in [Nature](#) and [Synthesis](#).
- Collected and interpreted data from host of sources/instruments and designed synthetic routes for constructing natural products.

**MICHIGAN TECHNOLOGICAL RESEARCH INSTITUTE, ANN ARBOR, MI**

Research Intern, June 2016 – September 2016

- Interpreted relationship between brain EEG data and environmental noise to show effect of sleeping environment on newborns' brain activity.
- Interpreted sonar data and used machine learning techniques to develop sensor for detecting environmental anomalies.

**EDUCATION** **UNIVERSITY OF CHICAGO, BACHELOR OF SCIENCE IN CHEMISTRY**

Graduated with general honors; GPA: 3.61; Graduate level chemistry studies; Calc-3

**UNIVERSITY OF MICHIGAN, COURESRA, INDEPENDENT LEARNING, NON-DEGREE STUDIES**

Data structures, algorithms, and OOP through Rice University Coursera specializations and independent learning; Linear Algebra (MATH 217) at U of M, GPA: 3.7

**PROJECTS** **CHEM-CAT CHEMISTRY MOBILE APPLICATION**

- Python-based Android/iOS application for learning organic chemistry, available on both [Google Play](#) and the [App Store](#)

**HONORS & ACTIVITIES** Top 3% Project Euler Problems Completed; HackerRank Badges: C++, Python, Problem Solving (all gold); University of Chicago Dean's List; Jeff Metcalf Internship Recipient (research funding)

Skyline High School Ultimate Frisbee (coach); University of Chicago Men's Ultimate Frisbee (captain); Club Ultimate Frisbee (player); Food Gatherers (volunteer); Michigan Math Core (volunteer)