

KENNETH DEBACKER

OBJECTIVE I'm a chemist turned programmer who loves to build and create. I can think critically and adapt to new technologies and roles.

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

EXPERIENCE **UNIVERSITY OF MICHIGAN COLLEGE OF PHARMACY, ANN ARBOR, MI**

Software Developer/Data Analyst, September 2019 – Present

- Used Python/R to automate tasks including grant processing, modeling runs, data set error searching, and result file reading. Developed mobile and desktop undergrad/PhD education applications. Also updated/maintained website.
- Used Python/MS Excel to clean data from hospital data queries to use for modeling, designed/ran/interpreted models using simulation software.

NEATON MATHEMATICS LLC, ANN ARBOR, MI

Web Application Developer, March 2019 – August 2019

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

SNYDER LAB, CHICAGO, IL

Undergraduate Researcher, February 2017 – May 2018

- Published author in [Nature](#) and [Synthesis](#) for natural product synthesis.

MICHIGAN TECHNOLOGICAL RESEARCH INSTITUTE, ANN ARBOR, MI

Research Intern, June 2016 – September 2016

- Interpreted data for both determining effect of environment on newborns' brain activity and developing 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, COURSEWORK, 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); Math Corps (volunteer)

