

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

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

Software Developer/Data Analyst, September 2019 – Present

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

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 using PHP.

SNYDER LAB, CHICAGO, IL

Undergraduate Researcher, February 2017 – May 2018

- Published author in [Nature](#) and [Synthesis](#) for synthetic organic chemistry.

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 (2018)**

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 **BOOKMARK GOOGLE CHROME EXTENSION (APR. 2020)**

- Webpage reading aid Chrome extension available on the [Chrome Web Store](#).

CHEM-CAT ORGANIC CHEMISTRY MOBILE APPLICATION (NOV. 2018)

- Python-based education app available on [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)

Club Ultimate Frisbee Player; Fishing Enthusiast; U of M Math Corps Volunteer