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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, MS Excel, C++, PHP, SQL, BASH, Kivy Language

EXPERIENCE

UNIVERSITY OF MICHGIAN 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 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 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

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); Math Corps (volunteer)