Kenneth DeBacker

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EDUCATION

The University of Chicago

Graduated June 2018

Bachelor of Science with General Honors, Chemistry

GPA: 3.61

Rice University (Through Coursera)

Completed October 2018

Specializations: "Introduction to Scripting in Python", "Fundamentals of Computing"

Coursework/Independent Learning: Data structures; Algorithms; Object-oriented programing; Excel; Graduate level chemistry studies at The University of Chicago.

TECHNICAL SKILLS

Fluent: Python, Kivy Language (KV)

Intermediate: C++, Bash

Beginner: HTML, CSS, MS Excel, MATLAB

WORK EXPERIENCE

Snyder Lab Chicago, IL

Undergraduate Researcher

February 2017 – May 2018

- Designed and improved synthetic routes for constructing natural products and testing reaction methodology targeted by the group, supported with funding awarded by Jeff Metcalf Internship.
- Collected and interpreted data from a host of sources/instruments (SciFinder, Reaxys, Mass Spectrometer, Column Chromatography, and NMR Machine).
- Author on published paper, author on another manuscript submitted to Nature for review (recently sent out to reviewers for peer review).

Michigan Technological Research Institute

Ann Arbor, MI

Research Intern

June 2016 – September 2016

- Interpreted relationship between brain EEG data and environmental noise to demonstrate the effect of sample sleeping environments on newborns' brain activity.
- Interpreted sonar data containing environmental and test noise; used machine learning techniques to develop a sensor prototype for detecting environmental anomalies.

Ridenour Landscaping

Ann Arbor/Saline, MI

Employee

June 2014 – September 2015 (Summers)

INDEPENDENT PROJECTS

Chem-Cat

Python-based Android/iOS application for learning organic chemistry built using Kivy. The app is available on both Google Play (https://bit.ly/2G7jLTV) and the App Store (https://apple.co/2GjhkwL).

LEADERSHIP EXPERIENCE

University of Chicago Ultimate Frisbee

Chicago, IL

Captain

September 2015 – June 2018 (Captain Junior/Senior Year)

- Helped team to highest finishes at D-I Sectionals (1st) and D-I Regionals (2nd) in program history.
- Organized and led workouts as well as team practice.

Skyline High School Ultimate Frisbee

Ann Arbor, MI

Coach

October 2018 - Present

HONORS AND ACTIVITIES

Honors: Top 3% Project Euler Problems Completed; HackerRank Badges: Problem Solving, Python, C++ (all gold); The University of Chicago Dean's List

Activities: Food Gatherers (Volunteer), University of Chicago Undergraduate Chemistry Society "Benzene" (Member), Club Frisbee Teams (Ann Arbor Spoiler, Chicago Beachfront Property, Ann Arbor Four)