# Ethan Rietz

ewrietz@gmail.com https://erietz.github.io

#### **Education**

**Oregon State University** 2021-PRES

Bachelor of Science: Computer Science (GPA: 4.0) Corvallis, Oregon

**Indiana University Bloomington** 2019 - 2021

Ph.D. Student: Physical Chemistry & Scientific Computing (GPA: 3.76) Bloomington, Indiana

**Iowa State University** 2013 - 2017

Bachelor of Science: Biochemistry (GPA: 3.51) Ames, Iowa

#### **Professional**

Werner Enterprises OCT 2021 - PRES

Software Intern Omaha, Nebraska

I work an agile/scrum team on developing mobile applications using the ionic framework, typescript, angular, and C# for the backend.

APR - OCT 2021 **Werner Enterprises** 

Software QA Intern Omaha, Nebraska

Tested APIs, UIs, and mobile devices using a variety of testing methods.

**Agilent Technologies** 2017 - 2019

Manufacturing Associate

Manufactured liquid consumable products (gels, buffers, DNA/RNA ladders and markers) for Agilent's capillary electrophoresis instruments in an aseptic environment.

**Limnology Laboratory** 2014 - 2015

Chemistry Technician Ames, Iowa

Worked in a laboratory certified by the Iowa Department of Natural Resources to analyze water nutrients for the Iowa Lakes Survey Monitoring Program.

#### Research

**Indiana University** 2019-2020

Research with Professor Srinivasan Iyengar

Bloomington, Indiana • Worked on high performance Linux computing clusters to study non-classical carbocation systems

- Used Ab initio molecular dynamics, density functional theory, and vibrational spectroscopy methods to
- understand energy redistribution in anomalous carbocations and hydrogen bonded systems.

**Iowa State University** 2016

Research with Professor Levi Stanley

Ames, Iowa

Ankeny, Iowa

Studied the catalytic activity of metal-organic framework compounds and asked if the steric and electronic properties of MOFs are tunable upon functionalization of the linker units.

## **Teaching**

Associate Instructor: Head AI **FALL 2020** C117: Principals of Chemistry and Biochemistry **Indiana University Bloomington** 

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• Oversaw four Associate Instructors, two undergraduate teaching assistants, and led weekly meetings

• Organized over 25 instructors to proctor examinations

• Made all exams, worksheets, and Canvas material for the course for over 600 students

Associate Instructor Spring 2020

C117: Principals of Chemistry and Biochemistry Indiana University Bloomington

Associate Instructor FALL 2019

C103: Introduction to Chemical Principals Indiana University Bloomington

### **Skills**

**Programming Languages** 

Tools

**Frontend Frameworks** 

C, Python, Javascript/Typescript, HTML/CSS, C#, Bash/Zsh, SQL Git, Make, MySQL, MongoDB, Ansible, Docker, Postman, Vim

React and Angular

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