

Ethan Rietz

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<https://erietz.github.io>

Education

Oregon State University <i>Bachelor of Science: Computer Science (GPA: 4.0)</i>	2021-PRES Corvallis, Oregon
Indiana University Bloomington <i>Ph.D. Student: Physical Chemistry & Scientific Computing (GPA: 3.76)</i>	2019 – 2021 Bloomington, Indiana
Iowa State University <i>Bachelor of Science: Biochemistry (GPA: 3.51)</i>	2013 – 2017 Ames, Iowa

Professional

Werner Enterprises <i>Software Intern</i> I work in an agile/scrum team on developing mobile applications using the ionic framework, typescript, angular, and C# for the backend.	OCT 2021 - PRES Omaha, Nebraska
Werner Enterprises <i>Software QA Intern</i> Tested APIs, UIs, and mobile devices using a variety of testing methods.	APR - OCT 2021 Omaha, Nebraska
Agilent Technologies <i>Manufacturing Associate</i> Manufactured liquid consumable products (gels, buffers, DNA/RNA ladders and markers) for Agilent's capillary electrophoresis instruments in an aseptic environment.	2017 – 2019 Ankeny, Iowa
Limnology Laboratory <i>Chemistry Technician</i> Worked in a laboratory certified by the Iowa Department of Natural Resources to analyze water nutrients for the Iowa Lakes Survey Monitoring Program.	2014 – 2015 Ames, Iowa

Research

Indiana University <i>Research with Professor Srinivasan Iyengar</i> <ul style="list-style-type: none">Worked on high performance Linux computing clusters to study non-classical carbocation systems computationally.Used <i>Ab initio</i> molecular dynamics, density functional theory, and vibrational spectroscopy methods to understand energy redistribution in anomalous carbocations and hydrogen bonded systems.	2019-2020 Bloomington, Indiana
Iowa State University <i>Research with Professor Levi Stanley</i> 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.	2016 Ames, Iowa

Teaching

Associate Instructor: Head AI <i>C117: Principals of Chemistry and Biochemistry</i>	FALL 2020 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

C117: Principals of Chemistry and Biochemistry

SPRING 2020

Indiana University Bloomington

Associate Instructor

C103: Introduction to Chemical Principals

FALL 2019

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