Ethan Rietz

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

Education

Oregon State University2021 - 2022Bachelor of Science: Computer Science (GPA: 4.0)Corvallis, OregonIndiana University Bloomington2019 - 2021Ph.D. Student: Physical Chemistry & Scientific Computing (GPA: 3.76)Bloomington, IndianaIowa State University2013 - 2017Bachelor of Science: Biochemistry (GPA: 3.51)Ames, Iowa

Professional

Werner Enterprises

OCT 2021 - Nov 2022

Omaha, Nebraska

- Software Intern
 Worked in C# on an application where financial and other company data was synced in real time between multiple systems.
 - Developed mobile applications using the Ionic framwork, TypeScript, Angular, and C# for the backend.
 - Wrote extensive unit and integration test suites using MSTest and worked with technologies such as Azure cloud services, SQL Server, Entity Framework, Visual Studio, and Postman.

Werner Enterprises APR - OCT 2021
Software QA Intern Omaha, Nebraska

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

Agilent Technologies

2017 - 2019

Manufacturing Associate

Ankeny, Iowa

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 computationally.
- 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

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.

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Teaching

Associate Instructor: Head AI

FALL 2020

C117: Principals of Chemistry and Biochemistry

Indiana University Bloomington

• 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 C#, Javascript/Typescript, Python, C, HTML/CSS, Bash/Zsh, SQL

Tools Git, Make, Azure, MySQL, MongoDB, Ansible, Docker, Postman, Vim, GitHub Ac-

tions

Frontend Frameworks React and Angular

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