

Hazel Rose Levine

✉ hazel@knightsofthelambdacalcul.us 🌐 bicompact.space 🌐 ralsei 🌐 Bloomington, IN

EDUCATION

B.S. in Computer Science, B.S. in Theoretical Mathematics

Aug 2020–Present

Indiana University

Bloomington, Indiana, USA

- » Current GPA: 4.0/4.0, Dean's List (all semesters)
- » Luddy School of Informatics, Computing, and Engineering Direct Admit

TEACHING

Introduction to Computer Science (Honors)

Jan 2021–Present

CSCI-C/H 211

Bloomington, Indiana, USA

- » Demonstrated concepts from lecture, assessed student expertise, and communicated weak points to students
- » Taught students both how to program and how to explore new programming paradigms using Racket

RESEARCH EXPERIENCE

Data Science Tooling for Racket

Jan 2021–Present

Graphite and Sawzall

Bloomington, Indiana, USA

- » Presented a talk at the International Conference on Functional Programming Scheme 2021 workshop
- » Designed R-inspired data science tools for ergonomic data visualizations in Racket
- » Assessed the usability of data manipulation tools, and designed new tools for efficient data wrangling

PROJECTS AND INVOLVEMENT

Mastodon Instance Administration

Oct 2020–Present

types.pl

Remote

- » Ran a defederated social network at scale, and managed a growing community of 90+ users
- » Administrated and modified a complex Ruby on Rails application to suit the needs of the community

Capture-the-Flag Competition Team

Jun 2020–Jul 2021

BLAHAJ CTF

Remote

- » Performed various cybersecurity tasks, and collaborated with a large international team of hackers
- » Placed 10th in Hack-a-Sat 2020 qualifiers, with global and professional competition

FIRST Robotics Competition, Team 868

Sep 2016–Apr 2020

Carmel High School TechHOUNDS

Carmel, Indiana, USA

- » Programmed and built robots to perform various game tasks in large, complicated competitions
- » Designed a series of programming and design certifications to ensure new members were ready to program
- » Collaborated with a large team of students at varying levels of expertise to create a quality robot

TECHNICAL SKILLS

- » *Programming languages:* **Racket, Java**, Haskell, C, Rust, R
- » *System administration:* **Linux, Nix/NixOS**, nginx, PostgreSQL, Windows
- » *Tools:* **Git**, L^AT_EX, Autodesk Inventor

RELEVANT COURSEWORK

- » *Computer Science:* **Data Structures**, Discrete Structures, Independent Study (in Programming Languages, x2)
- » *Mathematics:* **Abstract Algebra, Mathematical Logic**, Vector Calculus, Linear Algebra