
Education

The Ohio State University, Columbus, OH.

Expected May 2022

Bachelor of Science in Mathematics, Honors Specialization

Bachelor of Arts in Computer and Information Science

GPA: 3.876

Projects and Research

SU 2021 **Emerging Issues in Cybersecurity REU**, *New Mexico Institute of Mining and Technology*, Socorro, NM (online).

- Advised by Dr. Subhasish Mazumdar, developed a python package to generate synthetic tabular data with geometrically defined classes
- Investigated the behavior of machine learning explanation framework LIME using generated synthetic tabular data
- Work presented at International Conference on Information Society (i-Society) and published in proceedings
- Extended paper to be published in *International Journal For Infonomics*

SP 2021 **CSE 3902: Interactive Systems.**

- Developed a clone of *The Legend of Zelda* in C# with a team of six in biweekly sprints, using an agile development strategy

AU 2020 **Hack OH/IO.**

- Using Google AppsScript and Prismjs, helped create an automatic syntax highlighter in Google Docs as part of a 48-hour hackathon project

Employment

[OSU Department of Mathematics.](#)

AU 2021 **Student Grader, Math 5590H Honors Abstract Algebra I.**

- Graded weekly homework assignments for an honors undergraduate course in abstract algebra, covering groups, rings, and polynomials

[OSU Department of Computer Science and Engineering.](#)

AU 2020-SP 2021 **Undergraduate Grader, CSE 3521 Survey of Artificial Intelligence I.**

- Evaluated and gave feedback for assignments in introductory artificial intelligence including problem solving, knowledge representation, and machine learning
- Held regular office hours

AU 2019 **Undergraduate Grader, CSE 2221**, *The Ohio State University Department of Computer Science and Engineering.*

30 E Lane Ave. Apt. 106A – Columbus, OH, 43201

☎ (419) 378-5584 • ✉ jessehe.inbox@gmail.com • 🌐 [he-jesse](#)

- Graded assignments in an introductory software engineering course covering design-by-contract principles, mathematical modeling of software functionality, component-based software from client perspective, and layered data representation
- Aided lab instruction and held regular office hours

OSU Media, Marketing, and Communications Scholars.

SP 2020 **MMC Digital Sandbox Project Group Instructor.**

- Developed and taught a 7-week project-based course in \LaTeX
- Also served as a Professional Development Co-Curricular for OSU's Second Year Transformational Project Program

Skills

Technical Skills

- Python, C, C++, C#, Java, Javascript/HTML/CSS, LaTeX, Git

Languages

- Conversational Mandarin Chinese, basic skills in Spanish and Japanese