Paige Rolling

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EDUCATION

Iowa State University   Anticipated: May 2025

Bachelor of Science, Computer Science   Ames, IA

- **Minor:** Spanish
- GPA: 3.78, Dean's List for three semesters, highest 2% of LAS Sophomores Spring 2022

WORK EXPERIENCE

ISU Computer Science Department | Undergrad Research Assistant | Jan 2023- Present | Ames, Iowa

- Build and implement test beds using Jupyter Lab in order to find the best trade-off between accuracy and security for Deep Neural Networks secured by Differential Privacy.
- Meet with a research team and advisor multiple times a week in order to discuss the core problem.
- Conducted a project titled "Certified Robustness with Optimal Accuracy," which involved a grid search of epsilon values in identifying the best epsilon value for the best-certified accuracy.
- Developed a system to help practitioners implement differentially private machine learning models effectively, which was documented in a paper submitted to the CCS conference.

Kingland Systems | Data Research Analyst Intern | May 2022-Aug 2022 | Remote

- Conducted research and completed data entry on corporations and investment vehicles, using defined procedures to identify relationships and provide validated and credible data.
- Continued to enhance data quality over time on new and existing data through continual data clean-up efforts.
- Performed work according to the data quality and production standards as defined in policies and procedures.
- Participated in projects, as assigned, to assist the management team with improving automation, efficiency, the effectiveness of solutions, and training.

NIACC VIL STEM Camp | Camp Counselor | July 2022-Aug 2022 | Mason City, Iowa

- Facilitate and organize activities, lessons, and technology for middle school-aged students to learn and experience at a day camp.
- Aided middle school students in the use of 3D printing technology, coding projects, and rover technology in a fast-paced environment.

Women in Science and Engineering | Student Role Model | Dec 2021-March 2023 | Ames, Iowa

- Communicate and work with a team in order to travel to different schools/events with the goal of facilitating an interest in STEM through activities.
- Communicate with large groups of students and adults about different various aspects of Iowa State and how to use technology such as our VR headset and 3D printers.

Women in Science and Engineering | Social Media Intern | Dec 2021 - May 2022 | Ames, Iowa

- Work with a team to plan posts in an organized manner that work to spread awareness of the WiSE program at Iowa State University and develop company relations with students.
- Created and analyzed digital content for various social media platforms such as Facebook, Instagram, and Twitter.
- Conducted reports on the performance of campaigns and presented findings to managers.

Clear Lake Connected (www.clearlakeconnected.com) | Owner | July 2020-Present | Clear Lake, Iowa

- Started a social media marketing company that made over $7000 in profit in the first six months in order to aid local businesses with their marketing during the COVID-19 pandemic.
- Create social media accounts, websites, and proactively run social media accounts for national companies as well as local businesses.

Silver Spur Stables | Lesson Instructor | Aug 2015-Aug 2021 | Mason City, Iowa
- Planned, organized, and created a safe environment for beginner horseback riding lessons.
- Administered medications, created a clean environment, and planned feed schedules for a barn of 30+ horses.

ISU Department of Computer Science | Peer Mentor | Aug 2022-Present | Ames, Iowa
- Aided incoming freshmen at Iowa State in joining the Iowa State Community.
- Facilitated classroom discussion and activities for a group of 15+ students on a weekly basis.

ISU Department of Political Science | Teaching Assistant | Jan 2022-June 2022 | Ames, Iowa
- Led, organized, and conducted review sessions to aid in student learning and graded/aided in creating tests.
- Initiated, facilitated, and moderated classroom discussions.
- Evaluated students' tests and overall performance.
- Held regularly scheduled office hours to advise and assist students.

LEADERSHIP & AWARDS
- **Iowa State Spanish Club | Vice President | May 2022-Present**
    - Facilitate, plan, and grow the Spanish club at ISU through interactive meetings
- **Computer Science Student Advisory Council Member | Feb 2022-Present**
    - provide feedback on the CS department of ISU
- **ICPC Regionals (International Colligate Programming Contest) | Feb 2023-Present**
    - compete with a team to solve programming problems
- **YWCA Girls Power Mentor | Oct 2021-June 2022**
- **National Honor Society | Member | Nov 2019-May 2021**
    - Leader of the Blood Drive Committee and 2021 Blood Drive
- **Cerro Gordo 4-H (CC RIDERS) | Treasurer & Secretary | Sep 2015-Aug 2021**
- **Harmony Ranch | Volunteer | June 2017-July 2020**
    - Trained volunteers on how to safely handle horses for therapeutic riding sessions

TECHNICAL SKILLS
- **Frameworks/Software:** React.js
- **Languages:** Spanish (intermediate-advanced conversational)
- **Programming Languages:**
    - Intermediate: Python, Java, HTML
    - Proficient: CSS, JavaScript, MySQL, Cypher