Rishita Kollu

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EDUCATION

Iowa State University; Ames, IA
Bachelor of Science in Computer Engineering   Anticipated Graduation: May 2028
GPA: 4.00/4.00

WORK EXPERIENCE

Ames National Laboratory; Ames, IA   Aug 2024 – Dec 2024
Research Intern
- Developed Python modules to compute molecular energy using basis sets, enhancing computational efficiency.
- Implemented advanced algorithms to improve accuracy when handling large datasets.
- Contributed to the development of NWChem software, gaining experience with GitHub, PluginPlay, and high-performance scientific computing.

Knack Tutor; Iowa State University   Present
- Tutored students in Chemistry and Mathematics, providing personalized guidance to enhance understanding and problem-solving skills.

PROJECTS

First-Year Honors Mentor Program; Iowa State University   Present
Undergraduate Research Assistant
- Used Python and Pandas to analyze large datasets, making it easier to extract data and accurately track bus locations.
- Created automated scripts to match datasets using key identifiers, improving efficiency in handling Excel and CSV files for web applications.

Personal Finance Tracker ; High School Capstone   Aug 2023 – Mar 2024
Project Lead & Developer
- Designed a personal finance tracker application using Python and SQL, enabling users to monitor income, expenses, and savings efficiently.
- Integrated data visualization tools such as Matplotlib and Pandas to generate dynamic charts and graphs for clearer financial insights.
- Implemented secure database management systems to store user financial data, ensuring data integrity and privacy.

LEADERSHIP AND ACTIVITIES

(First Year Honors Program) FHP Leader   Present
Cultural Ambassador Program   Present
Middle School Science Bowl Volunteer   Jan 2025 – Feb 2025
Career Fair Executive Team   Spring 2025
Career Fair Ambassador   Fall 2024
WiSE (Women in Science and Engineering) Mentorship Program   Aug 2024 – Dec 2024
Editorial Team, School Magazine and Blog   Apr 2021 – Mar 2022
Certified Yoga Protocol Instructor   Jan 2021 – Oct 2022

SKILLS

- **Programming languages:** Python, Java, JavaScript, C, SQL, html
- **Development tools:** VS Code, Jupyter Notebook, Git hub, MySQL, Eclipse

HONORS AND CERTIFICATIONS

Engineering Student Program Support Scholarship (Awarded for Academic Merit)   Present
President's Award for International Students Excellence   Present