

ISHA SRIVASTAVA

+1(608) 686-2819 ◇ Madison, WI

◇ isrivastava3@wisc.edu ◇ [linkedin.com/in/ishasrivastava/](https://www.linkedin.com/in/ishasrivastava/)

EDUCATION

University of Wisconsin - Madison (*Recipient of Leo and Jean Besozzi Scholarship*) **GPA: 3.8**
Bachelor of Science: Computer Science and Data Science, Dean's List'24 **Exp Graduation: 12/2024**
Relevant Coursework: Software Engineering, Algorithms, Artificial Intelligence, Databases, Big Data, UI/UX, Machine Organization, Object-oriented programming, Discrete Mathematics, Matrix Linear Algebra, Data Science Modeling

EXPERIENCE

Quantitative Research Intern July - August 2024
Algoquant Fintech Limited *Bangalore, India*

- Developed a comprehensive Python-based backtesting framework for financial trading strategies, incorporating both spot and options market data.
- Implemented Bollinger Bands algorithm with parameterized signal generation, incorporating time-based resampling and slippage modeling for realistic performance metrics.
- Built a modular codebase with parameter optimization, contour plots, and overfitting analysis for robust strategies.

Research Assistant July 2023 - January 2024
Prof. Gurmail Singh at UW - Madison *Madison, WI*

- Designing an innovative language model that merges character n-grams with word embeddings, advancing machine translation and headline generation. Validated through benchmark experiments (Penn Treebank, WikiText-2).
- Improved model accuracy through character-level insights, surpassing traditional methods, and enhancing rare word handling with limited training data.

Software Development Intern June - August 2023
Flexagon, LLC *Green Bay, Wisconsin*

- Collaborated with FlexDeploy to align API functionality with CI/CD platform goals and user needs.
- Developed efficient and user-friendly RESTful API functionality for FlexDeploy 7.0 update, improving the overall user experience and platform capabilities.
- Contributed to the transition from Model1 APIs to Model2, spearheading the creation of a cutting-edge infrastructure that enhanced scalability and performance.

Data Science Intern August - September 2023
SymphonyAI *Remote*

- Conducted exploratory data analysis (EDA) on large datasets from the manufacturing plant/furnace to identify trends, patterns, and potential areas of improvement.
- Implemented a predictive model that optimizes solar panel glass manufacturing process parameters in real-time to increase the throughput, while concurrently reducing energy consumption and losses.

TECHNICAL SKILLS

Programming Languages C, Java, Python, React, Groovy, JavaScript, Linux, SQL, HTML, CSS
Technologies Node, Express, Spring boot, Docker, JUnit, Django, JDev, SQLDeveloper

PROJECTS

- As a founding backend engineer for Reel Talk, I developed and integrated backend modules, designed and maintained endpoints and database schemas, collaborated with front-end developers to create APIs for seamless feature integration, and optimized backend performance.
- Developed a full-stack chess application featuring real-time gameplay, user authentication, and a ranking system.
Technologies Used: React, Node.js, Express.js, MongoDB, Socket.io, JWT, CSS, AWS

STUDENT INVOLVEMENT

President of Women in STEM May 2024 - Present
UW-Madison

- Manage and organize all club events, ensuring smooth execution and high participation.
- Supervise and lead the executive board, delegating tasks and providing guidance.