

Yashraj Purbey

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github.com/yasshraj

OBJECTIVE

I'm a passionate CS student diving into the IT world, hungry for practical experience to sharpen my skills. Being an international student, I love exploring different cultures, and I'm convinced a tech role would turbocharge my growth.

Education

University of Nebraska - Lincoln | Lincoln, NE Expected Graduation: 06/2026
• **Major:** Computer Science, Minor: Mathematics **GPA:** 3.87
• **Awards & Achievements:** Global Laureate Scholar, Dean's List 2022, 2023, 2024, 2025
Nebraska Center for Energy Sciences Research Scholar

Experience

IT Intern, State of Nebraska, OCIO | Lincoln, Ne 01/2025 to 06/2025
• Provided first-level technical support by diagnosing and resolving a wide range of network, hardware, and software issues for state clients.
• Managed and tracked service requests in the ticketing system to maintain smooth workflow
• used Active Directory, Oracle, IBM z/OS, and AS/400 environments to serve clients need
• Maintained clear communication with clients, offering guidance and status updates on their requests.

Webmaster Intern, Pride Olympics | Chicago, IL
• Assisted in maintaining and updating the company website, ensuring it's running smoothly and up-to-date. WordPress
• Support on SEO efforts to optimize website content for better search engine rankings.(Google Analytics)
• Monitor website performance using analytics tools and provide suggestions for improvements.
• Collaborate with the marketing and design teams to implement new content, updates, and site features.

Student Developer intern, Olsson | Lincoln, Ne 08/2024 to 05/2025
• Worked on a project to develop a tool to automate the funding strategy process that matches projects with potential funding opportunities based on various attributes
• Built an interactive user interface using Vue.js for the frontend, database with PostgreSQL
• Utilized Docker for containerization, worked with APIkeys
• Helped in deploying and managing the application on Azure and AWS for scalability and reliability

Web Developer intern, University communication UNL | Lincoln, Ne 03/2024 to current
• Create and update university web pages on Drupal CMS
• Write and maintain custom code with the La-ravel framework, HTML JavaScript MySQL
• Build dynamic and interactive web pages
• Debug and fix issues on existing web pages
• Participate in weekly stand up meetings to discuss progress and share updates.

Research Assistant, Center for Plant Science Innovation | Lincoln, Ne 02/2024 to current
• Developed VaSP2, a software tool for identifying genotype-specific RNA splicing events in rice, maize, and sorghum populations.
• Applied VaSP2 to RNA-seq datasets to link splicing variations with phenotypes such as oil accumulation and biomass.
• Conducted research on algorithms to find genome sequences in linear time, R and python

Research Assistant, Civil & Environmental Engineering | Lincoln, NE 06/2023 to 01/2024
• Developed a tool and implemented custom code Python for image processing and feature extraction focusing on Landsat satellite imagery

- Utilized the imagery and machine learning to predict the ice jam for various rivers in Nebraska in all seasons. Used Different libraries: NumPy, Pandas, matplotlib, scikit-learn etc
- Processed and analyzed the collected data, using ArcGIS

Projects

RNA Splicing Analysis Tool

- Upgraded and developed new functions for VaSP2 to detect alternative splicing events (AltD, AltA, ExonS, IntronR) in rice, maize, and sorghum populations using RNA-seq data. Applied the tool to identify genotype-specific splicing events and linked them to phenotypes such as oil accumulation and biomass, supporting candidate gene discovery in association studies.
- Tools Used: R, Rstudio

Grocery Application

<https://github.com/yasshraj/online-grocery-app>

- Designed and developed a user-friendly grocery management app as a team using the .NET Framework and C#, featuring real-time data sync and to help users create, update, and manage shopping lists and track inventory.
- Tools Used: C#, JavaScript, CSS, HTML

Ice Jam Model

<https://github.com/yasshraj/ice-jam-model>

- Developed an ice jam prediction model in Python to forecast potential ice jam occurrences in Nebraska rivers using machine learning techniques. Utilized libraries such as Pandas, Scikit-learn, and Matplotlib for data manipulation, model training, and visualization.
- Tools Used: R, python, ARCGis

HTML Email Manager (UNL)

University's private repo

- Developed a dynamic web application using Laravel framework, which allowed users to have that dynamic template creation, editing, sending and storage with real-time preview and database-driven content
- Tools Used: php, CSS, JavaScript, MySQL
- postmaster.unl.edu
- [A short clip of Project](#)

Funding Strategy Automation Tool (Olsson)

private repo

- Designed and implemented a funding strategy automation tool using Vue.js for the frontend and PostgreSQL for the backend, streamlining the process of matching projects with potential funding opportunities using different eligibility attributes.
- Tools Used: Vue.js, PostgreSQL, API keys, Azure, Docker

Skills

Full Stack Development | Web Development | Collaboration | Communication | Leadership

Programming Languages & DBs: C, Java, JavaScript, php, python, .NET, typescript, react, Vue.js, MySQL, SQL Server, Azure, R, CMS, HTML, CSS, PostgreSQL

Frameworks, Libraries & APIs: React, Laravel, RESTful APIs, Pandas, TensorFlow, Numpy, Rasterio

Tools: GitHub, Git, Slack, Webex, Microsoft Teams, Azure, DevOps, GitLab, Docker, Agile software methodology/architecture and the principles of SOLID