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:** 3.84
- **Awards & Achievements:** Global Laureate Scholar, Dean's List 2022, 2023, 2024

Experience

IT Intern, *State of Nebraska, OCIO* | Lincoln, Ne　　　　　　　　　　　　　　　　　01/2025 to current
- Provide first-level technical support to clients, ensuring timely and accurate issue resolution, including tasks related to Active Directory, Oracle, IBM z/OS, and AS/400 environments.
- Managed and tracked service requests in the ticketing system to maintain smooth workflow
- Diagnosed and resolved basic network, hardware, and software issues effectively
- Escalated complex problems to senior teams when necessary to ensure quick solutions.
- Maintained clear communication with clients, offering guidance and status updates on their requests.

Webmaster Intern, *Pride Olympics* | Chicago, IL
- Assist 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.

Software Developer intern, *Olsson* | Lincoln, Ne　　　　　　　　　　　　　　　　　08/2024 to current
- Working on a project to develop a tool to automate the funding strategy process that matches projects with potential funding opportunities based on various attributes and eligible activity
- Building an interactive user interface using Vue.js for the frontend, database with PostgreSQL
- Implementing Docker for containerization, ensuring consistent development and deployment environments.
- Deploying and managing the application on Azure 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 01/2025
- Conducted research on algorithms to find genome sequences in linear time, R and python
- Developed and optimized a bio informatics pipeline in R for analyzing RNA sequencing data

Research Assistant, *Civil & Environmental Engineering* | Lincoln, NE　　　　　　06/2023 to 01/2024
- Conducted extensive research and read many papers, focused on Landsat satellite imagery
- Developed and implemented custom code Python for image processing and feature extraction
- Utilized the imagery and machine learning to predict the ice jam for various rivers in Nebraska. Used Different libraries:

NumPy, Pandas, matplotlib, scikit-learn etc

- Processed and analyzed the collected data, used ArcGIS

Projects

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 elgibility attributes.
- Tools Used: Vue.js, PostgreSql, API keys, Azure, Docker

Skills

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

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

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