

HARSHIT JAIN

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EDUCATION

The Pennsylvania State University, University Park PA

Aug 2021 - May 2024(Expected)

Bachelor of Science in Computer Science | Minor in Mathematics

GPA: 3.75/4.0; Dean's List (All Semesters); Recipient of The President Walker Award

Relevant Coursework: Data Structures & Algorithms, Systems Programming, Artificial Intelligence, Programming Language Concepts, Programming and Computation II: Data Structures (in Python), OOP with Web-based Applications (in Java), CodePath: Intermediate Software Engineering, Discrete Mathematics

SKILLS

Programming Languages: Python, JavaScript, C/C++, Java, HTML/CSS, MATLAB, Verilog, Assembly (64/32-bit x86)

Softwares: Visual Studio, Microsoft SQL Server, MySQL Database System, Linux/UNIX, Postman, JIRA

Frameworks & Tools: Node.js, React.js, RESTful APIs, \LaTeX , Git, Agile

EXPERIENCE

Web Development Intern, Research Associate

May 2022 - Present

Materials Research Institute (MRI), The Pennsylvania State University

University Park, PA

- Contributed to the development of DMR-FIRST Instrument Tool (NSF-funded project), a full-fledged search engine for researchers across the U.S.
- Implemented front-end architecture using React.js to design 50+ latest user-facing features with 100% accuracy (tested using JEST) and built reusable components & front-end libraries for continuous development
- Tested and optimized 20+ REACT components for the best performance across every device and browser
- Integrated MS SQL Server relational database which currently deals with 500+ instruments and 18+ tables
- Saved weeks of development efforts by integrating leverageable modular code by using popular REACT libraries such as Material UI, improving the efficiency by approx. 40%
- Developed and tested Python scripts that automate the process of implementing logic to retrieve data from various sources, manipulate and analyze the data, filter out irrelevant information, look up similar data in the server, import it into the server, and handle errors gracefully
- Collaborated and networked effectively with other team members at each step of the design process to accomplish sprint goals and negotiate design solutions
- Utilized: Python, JavaScript, React.js, Node.js, MS SQL Server, RESTful APIs, Git, HTML/CSS, JIRA, Office 365

PROJECT EXPERIENCE

Course Scheduler ([Try it here](#))

Oct 2022 - Dec 2022

- Developed the application using Java and SQL to allow students and educators to manage their course schedules, including setting up semesters, adding courses & students
- Designed the Derby Database to store and organize the data, and wrote several SQL queries to facilitate tasks such as adding and dropping courses, and managing the waitlist process

Library Management System ([Try it here](#))

Nov 2021 - Dec 2021

- Built a Python-based professional library management system that streamlines basic and advanced tasks in a library setting; the system passed tests on 500+ library logs
- Developed multiple features and functions for the system, including:
 - Checking the eligibility of students to borrow books on a particular day for a certain number of days
 - Finding the most borrowed/popular books in the library
 - Finding the book that has the highest borrow ratio
 - Producing a sorted list of the most borrowed books (books with the highest usage ratio)
 - Calculating the pending fines at the end of the log and on a specific day in the log

LEADERSHIP

- Webmaster (Web Manager) in [Nittany Data Labs \(NDL\)](#) Club @ Penn State Apr 2022 - Present
- Resident Assistant (RA) in East Halls Complex @ Penn State Jun 2022 - Present