

# Yuvika Khurana

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## EDUCATION

### Purdue University

Bachelor of Science in Computer Science, Concentration in Software Engineering

GPA: 4.0/4.0 | Expected Graduation: May 2025

Honors and Awards: Boeing Student Organization Scholarship; Dean's List and Semester Honors (all semesters)

Relevant Coursework: Object-Oriented Programming (Java), Programming in C (with C++), Discrete Mathematics, Data Structures and Algorithms, Computer Architecture, Systems Programming, Software Engineering

West Lafayette, IN

Jan. 2022 – Present

## WORK EXPERIENCE

### Software Development Intern

Merck

Aug. 2023 – Present

West Lafayette, IN

- Collaborated with a team of 7 members to develop a general Dash app interface where the user can import Python code, define the input parameters and generate output parameters and graphs resulting in a 40% reduction in development time
- Uploaded the Dash app to the Merck RSCONNECT system, enabling the Computational Digital team to implement advanced chemical engineering models resulting in optimized workflows and enhanced research capabilities

### Undergraduate Teaching Assistant

Purdue Computer Science Department

Aug. 2022 – Present

West Lafayette, IN

- Facilitated instructional support for the courses CS 180: Object-Oriented Programming in Java and CS 251: Data Structures and Algorithms
- Supervised office hours and led the lab sections of 80+ students providing guidance on weekly programming assignments, debugging and facilitating discussions to enhance learning outcomes and problem-solving skills

## PROJECTS

### MERN Full Stack Social Media App ([GitHub link](#)) | React.js, Redux, Node.js, Express.js, JavaScript, HTML/CSS, MongoDB

- Created a full-stack Social Media Web Application that allows users to create profiles, follow other users, connect and interact with each other through features such as posting, commenting, liking, content
- Developed front-end using React, making use of Redux Toolkit for state management and implemented back-end using Node.js as the runtime, Express.js as the framework and Mongoose for managing Mongo database

### APIs based Chat Application ([GitHub link](#)) | React.js, Redux, Node.js, Express.js, JavaScript, HTML/CSS

- Designed a full-stack chat application using OpenAI API for AI-driven chat capabilities and Chat Engine for hosting chats and Chat UI that allows users to engage in conversations with both AI chatbots and fellow users, with features like auto-completion of texts
- Built front-end with React, leveraging Redux Toolkit for state management, Redux Toolkit Query for API calls and developed back-end using Node.js as the runtime and Express.js as the framework to manage chat operations

### Database Learning Management System ([GitHub link](#)) | Java

- Designed a Learning Management System using Graphical User Interfaces(GUI) incorporating features of Network I/O and Concurrency that allowed student and teacher users to interact through the discussion forums
- Created a server-client component which uses user defined protocols over network sockets for communication with a multi-threaded, asynchronous implementation

## LEADERSHIP & EXTRACURRICULAR

### Mentor | Purdue University LaunchPad

Jul. 2023 – Present

- Mentored a CS freshman, introducing them to the CS community at Purdue and guided them in conceptualizing and executing a semester-long technical project

### UX Team Lead | Purdue Hello World Hackathon

Jan. 2023 – Present

- Led a team of 5 people to plan and organize Hello World 2023 - Purdue's freshman only hackathon
- Strategically planned and executed socials, team building and mentorship events for over 350 participants

### Member | Computer Science Women's Network

Aug. 2022 – May 2023

- Furthered the mission of the organization at Purdue University dedicated to helping women in the Computer Science field
- Facilitated activities including campus-wide events like Puzzle Day, tech panels, socials and professional networking opportunities

## SKILLS

Languages: English (Fluent), Hindi (Native), Gujarati (Native)

Programming: Java(proficient), Python(proficient), C(proficient), C++(intermediate), HTML/CSS(proficient), JavaScript(proficient), SQL(proficient)

Framework/Technologies: Node.js, React.js, Redux, Express.js, jQuery, Bootstrap, Dash, Git, Unix, MongoDB

Others: Web Development, Object-Oriented Programming, Data Structures and Algorithms