

# Chirag Bhardwaj

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## EDUCATION

### University of Wisconsin - Madison

Madison, WI

*Bachelor's of Science in Computer Science*

*Aug. 2020 – May 2024*

- President of the Undergraduate Projects Laboratory
- Golden Brick Award for contribution to computer science

## EXPERIENCE

### Software Engineering

June 2023 – August 2023

*UL Solutions*

*Northbrook, IL*

- Worked on a Protecode automation API tool using Python to automate over 100,000 CVE scans.
- Added functionality for fetching, reading, and writing Protecode scan results from Synopsys (vendor).
- Created a Web App for document automation using React JS.
- Developed dynamically loading pages for product codes, sections, and clauses.
- Enabled team to create final documents with a single click and download as PDF.

### Transformation Intern

June 2022 – August 2022

*UL Solutions*

*Northbrook, IL*

- Assisted in cleaning up data for transformation from IQ beta to IQ production database.
- Helped find lost records and certificates for over 1,500 products.
- Documented over 200 UL-issued certificates and contributed to enhancing data-centric operations.

### Teaching Assistant: Calculus-II

December 2021 – May 2023

*University of Wisconsin - Madison*

*Madison, WI*

- Held regular office hours and helped over 500 students in Math 222.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL, JavaScript, HTML/CSS, Bash

**Frameworks:** React, Node.js, JUnit, Spring Boot, Bootstrap, Flask

**Developer Tools:** Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, CLion

**Operating Systems:** Mac, Windows, Unix/Linux

## CERTIFICATIONS

**IEC 62304 (UL):** DICOM, PACS, RIS PACS, SDLC

**Algorithms (IIT Bombay):** Graphs, Trees, Stacks, Heaps

## TECHNICAL SKILLS AND TRAININGS

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## PROJECTS

### Pneumonia X-Ray Detector | *Python, Flask, VGG-16*

- An AI-powered tool utilizing NIH's chest x-ray dataset for pneumonia diagnosis.
- Trained using transfer learning on top of VGG-16.

### Dating App | *Javascript, React Native, Firebase, Expo Go*

- Full stack mobile dating app.
- Complete functionality for account creation, liking profiles, and matches.
- Home screen allows user to swipe right/left on other users' cards.

### RadFlow | *Javascript, MongoDB, Node.js*

- Full stack Radiology Workflow for hospital setting.
- User —>Technologist —>Radiologist workflow for medical images.
- Option for AI analysis of patient images.