

# Parv Bhardwaj

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## SKILLS

**Programming Languages:** Java, JavaScript, TypeScript, Python, Bash, PowerShell, CUDA, R

**Frontend & Libraries:** React, Next, Vue, HTML & CSS, Tailwind CSS, Node.js, Express, Spring Boot, .NET, Selenium, BeautifulSoup

**Databases, Cloud, and Dev. Tools:** MongoDB, SQL, Postgres, Git, VS Code, RStudio, Figma, Latex, GitHub

**Microsoft Tools & Platforms and Other:** SharePoint, Power Automate, OData, MS 365 Office, Active Directory, Adobe, GSuite

## EDUCATION

Case Western Reserve University(CWRU), Cleveland, OH

2025 December

Bachelor of Science in Computer Science, Minor in German. **United World College Davis Scholar**(\$30,000/year)

## EXPERIENCE

Nexus Engineering Group, Cleveland-OH

2024 May – 2024 Aug

Software and Technical Project Information Manager

- Built **PowerAutomate** scripts to automate equipment requests, invoices, and RFI forms, increasing efficiency by **75%** using **JSON** and **OData**, serving **250+ employees** across the board in 4 different locations.
- Built custom **SharePoint** sites using **JSON** and **Power Automate**, tailored for **over two dozen** ongoing projects.
- Worked on developing **Algorithms** and **AI agents** using **Python** to extract signatures from the company's deliverables PDFs

UTech at Case Western Reserve University(CWRU), Cleveland-OH

2022 April - Present.

Information Systems Assistant

- Personally provided software and hardware support for **Windows** and **MacOS** to **200+** clients in **50+** departments.
- Led projects to set up workstations for the Housing Department; configured and tested **card encoders** serving **1500+** students.
- Configured computing equipment in a networked environment. Other responsibilities were telephone & remote support for users.
- Conducted interviews and recruited other students for the Systems Assistant role at UTech.

Techensifier, Delhi-India

2023 May – 2023 July

Software Development Engineer Intern

- Built custom **Java Desktop** Applications and several **Java** libraries, including JUnits for tests.
- Successfully led a project to develop an **admin dashboard** using the MERN Stack(**MongoDB**, **Express.js**, **React.js**, **Node.js**).

Teaching Assistant at CWRU, Cleveland-OH

2022 Sep. - 2022 Dec.

TA for Full-Stack Web Development

- Delivered comprehensive instruction in foundational **full-stack web development** focusing on **MongoDB**, **Express**, **React**, **Node**, and **Vue.js** technologies, while imparting robust debugging and troubleshooting methodologies essential for building scalable and maintainable end-to-end applications.
- Directly worked under Prof Daniel Izadnegadhar, held review sessions, and graded exams for 100+ students taking the course.

## PROJECTS

PollPal | **React.js**, **TypeScript**, **Django**, **MongoDB**

- Built the frontend of **PollPal**, a swipe-based place voting app, improving user interaction speed by **40%** through UI/UX design.
- Engineered key features—auth flows, profile editing, filtering, and review systems—used by **500+** testers during MVP rollout.
- Led and coordinated a team of 3 developers, reducing frontend bugs by **60%** through code reviews and agile development.

Smart Allocator of Residence and Ambition(SARA) | **React.js**, **TypeScript**, **Python**, **SQL**

- Created **City Recommendation and Neighborhood Systems** using **Python**, **MySQL**, **React**, **Flask**, and **Random Forest**, reducing search time by **50%**, improving user satisfaction by **40%**, and decision-making efficiency by **35%**.

Inventory Management Application | **Java**, **SQL**, **Netbeans**, **Java Mail API**

- Developed a Desktop CRUD Application using **Java**, **SQLite**, and **DB Browser(DBMS)** in **Netbeans IDE**
- Implemented password protection, webcam capture, OTP generation, and emailing using appropriate APIs

Automated Voice Assistant | **Python**, **Requests**, **BeautifulSoup**, **Selenium**

- Developed an automated Python project utilizing the **Google Speech Recognition API** for converting speech to text
- Implemented **web scraping** techniques to extract relevant appointment information from medical websites
- Integrated Browser automation with the **web driver module** to enhance accessibility in the appointment scheduling process

UPenn Hackathon - KnowYourHousing | **React.js**, **GoogleMaps APIs**, **PlacesAPI**, **DirectionsAPI**

- Developed a front-end application using **React.js** and **Google Maps APIs**, including **Directions** and **Places APIs**
- Implemented **Directions API** to show people the fastest drivable route, time, and commute cost from the selected location

MIT Hackathon - Cartoonifier | **Python**

- Developed a **Python** program to animate images
- Qualified for the Hackathon by being in the top 6%