

# Ji Bing Ni

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## EDUCATION

### Purdue University

Bachelor of Science in Computer Science

West Lafayette, IN

Aug. 2022 – May 2026

## EXPERIENCE

### Computer Vision & Machine Learning Research Assistant

Jan. 2025 – Present

Purdue Vertically Integrated Projects

West Lafayette, IN

- Developed computer vision models with **PyTorch**, enabling better analysis of animal behavior
- Processed image and video data with **machine learning**, improving model performance/accuracy
- Collaborated in a **team of 9**, delivering weekly presentations to showcase research findings

### Undergraduate Data Science Researcher

Aug. 2024 – Present

The Data Mine - Purdue University

West Lafayette, IN

- Developed an **AI-powered chatbot** for **Wabash**, reducing reliance on call center agents
- Trained a **machine learning** model, resulting in more precise responses for customers
- Implemented a user-friendly **React** interface, improving chatbot efficiency and user experience
- Collaborated in a **team of 8**, applying **Agile** practices via **Azure DevOps** to enhance efficiency

### Undergraduate CS Teaching Assistant

Aug. 2024 – Present

Purdue University

West Lafayette, IN

- Held office hours for **Object-Oriented and C Programming**, enhancing student comprehension
- Graded assignments and provided feedback, resulting in better comprehension of course material
- Answered to student questions on **Ed Discussion**, improving understanding of **Git/GitHub**, **terminal commands**, and **LaTeX**

### Computer Science Tutor

Aug. 2024 – Present

Horizons Student Support Services

West Lafayette, IN

- Led 1-on-1 tutoring sessions for **Python**, strengthening their programming skills
- Held office hours for **Systems and Competitive Programming**, clarifying complex concepts

### Software Development Research Assistant

Aug. 2024 – Dec. 2024

Purdue Vertically Integrated Projects

West Lafayette, IN

- Developed a landing page for the **ECE Labs.io website**, attracting new users to the website
- Modernized the **ECE Labs.io website**, improving user experience while maintaining remote access to hardware labs for **450+ students**

## PROJECTS

### Pokémon Web Application | React, Express.js, Node.js, MongoDB

May 2024 – Present

- Utilized **PokeAPI** for real-time data, showcasing content for **1,000+ Pokémon**
- Constructed a secure backend with **Express.js** and **MongoDB**, supporting **1,000+ users**
- Designed a responsive UI with **React**, **Material-UI**, and **Tailwind CSS**, improving user engagement
- Displayed detailed data for **1,000+ Pokémon** including stats, types, images, and moves with **99%** accuracy

### Productivity Management System | React, Flask, SQLite

Aug. 2024 – Dec. 2024

- Collaborated in a **6 member scrum team**, delivering **70+ user stories** for project
- Engineered a client-server application using **React.js**, **Flask**, and **SQLite**, allowing users to access and manage their tasks effectively
- Incorporated **Open-Meteo API** and **Google Geolocation API**, providing users with real-time weather updates and location-based services
- Executed **Scrum** practices for sprint planning, stand-ups, retrospectives, and backlog management

## TECHNICAL SKILLS

**Languages:** Java, Python, C, C++, JavaScript, SQL, R, HTML, CSS, Tailwind CSS

**Frameworks:** React, Flask, Express.js, Node.js, Material-UI, Bootstrap

**Developer Tools:** Git, GitHub, Azure DevOps, LaTeX, VS Code, IntelliJ, Eclipse

**Libraries:** pandas, NumPy, Matplotlib, Beautiful Soup, SQLAlchemy