

# 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 **1080+** students **Object-Oriented and C Programming**, improving comprehension
- Graded **80+** assignments and provided feedback, resulting in better comprehension of course material
- Answered **200+** 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 Developer

Aug. 2024 – Dec. 2024

*Purdue Vertically Integrated Projects*

West Lafayette, IN

- Developed a landing page with **HTML**, **CSS**, and **JavaScript** for **ECE Labs.io**, attracting new users
- Enhanced the **ECE Labs.io** website by redesigning a modern homepage, improving user experience
- Collaborated in a **software team of 5** to hold weekly meetings, maintaining remote access to hardware labs for **450+ students**

## PROJECTS

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

May 2024 – Present

- Utilized **PokéAPI** 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, MongoDB, PostgreSQL, SQLite

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

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