

Ji Bing Ni

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EDUCATION

Purdue University

Bachelor of Science in Computer Science

West Lafayette, IN

Aug. 2022 – May 2026

EXPERIENCE

Undergraduate Data Science Researcher

Aug. 2024 – Present

The Data Mine - Purdue University

West Lafayette, IN

- Developed an **AI-powered chatbot** for **Wabash**, integrating a trained **machine learning model** to deliver more precise customer responses, reducing reliance on call center agents
- Implemented a user-friendly **React** interface, improving chatbot efficiency and user experience across **20+** devices
- Created **5+** test cases using **Pytest**, ensuring chatbot accuracy and robustness through automated testing
- Collaborated in a **team of 8**, applying **Agile** practices via **Azure DevOps** to enhance project efficiency

Undergraduate CS Teaching Assistant

Aug. 2024 – Present

Purdue University

West Lafayette, IN

- Led 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

- Conducted **20+** tutoring sessions for **Python Programming**, improving student's programming skills
- Led **15+** office hours for **Systems and Competitive Programming**, breaking down complex concepts into clear explanations to improve student comprehension

Software Developer

Aug. 2024 – Dec. 2024

Purdue Vertically Integrated Projects

West Lafayette, IN

- Developed an intuitive landing page using **HTML**, **CSS**, and **JavaScript** for **ECE Labs.io**, featuring **10+** custom components and ensuring responsiveness across **20+** devices to enhance user engagement and attract new users
- Revamped **ECE Labs.io** homepage with a modern design, improving user experience for **450+ students**
- Collaborated in a **software team of 5** to hold weekly meetings, maintaining remote access to hardware labs for **450+ students**

Student Software Developer

Aug. 2024 – Dec. 2024

Purdue University

West Lafayette, IN

- Collaborated in a **6 member scrum team**, delivering a client-server productivity management system that consisted of **70+ user stories**
- Engineered a full stack client-server application using **React.js** and **CSS** for front-end, **Flask** for backend, and **SQLite** for data management, allowing users to access and manage their schedule and tasks effectively
- Facilitated **27+** Scrum meetings that included Sprint Planning, Backlog, Stand-ups, Reviews, and Retrospectives by coordinating with scrum team, improving team efficiency

PROJECTS

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

May 2024 – Present

- Integrated **PokéAPI** for real-time data, dynamically displaying detailed information on **1,000+ Pokémon**.
- Engineered a secure and scalable backend using **Express.js** and **MongoDB**, efficiently handling authentication and supporting **1,000+ users**.
- Designed an interactive and responsive UI with **React**, **Material-UI**, and **Tailwind CSS**, enhancing user engagement and accessibility.

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