

Ji Bing Ni

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Education

Purdue University

Bachelor of Science in Computer Science

Expected Graduation: May 2026

Relevant Coursework: Data Structures & Algorithms, Competitive Programming, Object-Oriented Programming, Systems Programming, C Programming, Computer Architecture, Software Engineering

Experience

Undergraduate Data Science Researcher

Aug.2024 - Present

The Data Mine - Purdue University, West Lafayette, IN

- Created an **AI-powered chatbot** for **Wabash National's website**, developing a responsive and user-friendly front-end interface that improved customer support efficiency and **reduced reliance on call center agents**
- Applied **Agile methodology** within a **team of 8**, executing 2-week sprints, reviews, demos, and backlog management via **Azure DevOps**

AI & Game Development Research Assistant

Jan.2025 - Present

Purdue Vertically Integrated Projects, West Lafayette, IN

- Collaborated with a team to develop **AI-driven Non-Player Characters (NPCs)** and interactive virtual environments
- Contributed to the design and implementation of NPC behaviors using **Unreal Engine** and **machine learning** techniques

Undergraduate CS Teaching Assistant - Undergraduate Student Board

Jan.2025 - Present

Purdue University, West Lafayette, IN

- Conducted office hours focused on helping students master **Object-Oriented Programming** and **C Programming**
- Delivered personalized guidance to enhance students' understanding and application of core programming concepts

Computer Science Tutor

Aug.2024 - Present

Horizons Student Support Services, West Lafayette, IN

- Led 1-on-1 tutoring sessions for first-generation, low-income students to strengthen their mastery of **Python programming**
- Held office hours to support students in **Python Programming, Systems Programming, and Competitive Programming**
- Facilitated group tutoring sessions to promote collaborative problem-solving in core computer science courses.

Undergraduate CS Teaching Assistant - Tools

Aug.2024 - Dec.2024

Purdue University, West Lafayette, IN

- Monitored and responded to student questions on Ed Discussion regarding **terminal commands, Git/GitHub, and LaTeX**
- Conducted office hours focused on helping students master **terminal commands, Git/GitHub operations, and LaTeX**
- Graded assignments and provided feedback to support student's understanding of course concepts

Software Development Research Assistant

Aug.2024 - Dec.2024

Purdue Vertically Integrated Projects, West Lafayette, IN

- Developed an engaging landing page for the **ECE Labs.io website**, aimed at showcasing the platform's capabilities
- Maintained the **ECE Labs.io website** to enable remote access to hardware labs for **450+ Electrical and Computer Engineering students**.

Projects

Pokémon Web Application

May 2024 - Aug.2024

- Constructed a secure backend with **Express.js** and **MongoDB**, ensuring fast API response times under 200ms and supporting **1,000+ users**
- Designed a responsive UI with **React hooks, Material-UI, and Tailwind CSS**, **boosting user engagement by 20%**
- Implemented advanced Pokémon features, including sorting, searching, and pagination for **1,000+ Pokémon**

Productivity Management System (EvoPlan)

Aug.2024 - Dec.2024

- Collaborated in a **6 member scrum team**, contributing to sprint planning, stand-ups, retrospectives, and backlog management, delivering **70+ high-value features**
- Engineered a client-server application using **React.js** for the front end, **Flask** for the server side, **SQLite** for the database, and integrated external APIs like **Open-Meteo API** and **Google Geolocation API** for real-time data

Technical Skills

- Languages:** Java, C, C++, Python, JavaScript, HTML, CSS, Tailwind CSS
- Developer Tools:** React, Node.js, Express.js, Flask, Bootstrap, MongoDB, SQLite, SQLAlchemy, Git, GitHub