

Ji Bing Ni

US Citizen | +1 (317) 625-5961 | jibingni17@gmail.com | [linkedin.com/jibing](https://www.linkedin.com/in/jibing) | github.com/jibing | [jibing17/portfolio](https://jibing17.github.io/portfolio)

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 **NLP** model using **machine learning** for query classification, database retrieval, and context-aware responses, reducing reliance on call center agents
- Implemented a user-friendly front-end interface that interacts with a back-end server and **RESTful API**, handling chatbot interactions, session management, and feedback submission, resulting in a scalable and efficient chatbot
- Developed **5+** test cases, including tests for external **API** connectivity, **RESTful API** endpoints, and data storage accuracy, while optimizing chatbot responsiveness across **20+ devices**, improving chatbot reliability
- Collaborated in a **8-member software team** applying **Agile** practices via **Azure DevOps**, enhancing efficiency

Software Developer

Aug. 2024 – Dec. 2024

Purdue Vertically Integrated Projects

West Lafayette, IN

- Developed a responsive landing page using **HTML**, **CSS**, and **JavaScript** for **ECE Labs.io**, integrating **10+** components, including a dynamic navbar, interactive carousel, and collapsible FAQ, attracting new users
- Revamped **ECE Labs.io** homepage by modularizing **5+** sections and applying a modern flex-based layout, simplifying navigation for **450+ students**, resulting in better overall user experience
- Ensured cross-device compatibility for landing page across **20+** devices by leveraging **CSS media queries**, resulting in a consistent browsing experience on mobile, tablet, and desktop screens
- Collaborated in a **5-member software team**, maintaining remote access to hardware labs for **450+** students

Undergraduate CS Teaching Assistant

Aug. 2024 – Present

Purdue University

West Lafayette, IN

- Led office hours for **1,080+** students on **Object-Oriented Programming & C Programming** and **900+** students on developer tools, including **Git**, **Bash**, and **VS Code**, improving student's course comprehension
- Graded **80+** assignments and provided feedback, enhancing student's assignment quality and code maintainability
- Answered **200+** student questions on **Ed Discussion**, improving student's 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**, enhancing student's programming skills
- Led **15+** office hours for **Systems and Competitive Programming**, improving student's comprehension

PROJECTS

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

May 2024 – Present

- Integrated **RESTful PokéAPI** for real-time data, dynamically displaying information on **1,000+ Pokémon**
- Engineered a secure and scalable backend using **Express.js** and **MongoDB**, implementing a **RESTful API** to handle authentication and supporting **1,000+ users**
- Designed a responsive UI with **React**, **Material-UI**, and **Tailwind CSS**, enhancing user experience

Productivity Management System | *React, Python, SQLite*

Aug. 2024 – Dec. 2024

- 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
- Collaborated in a **6-member scrum team**, delivering a client-server system that consisted of **70+ user stories**
- Facilitated **27+** Scrum ceremonies (Backlog, Stand-ups, Reviews, and Retrospectives), improving team efficiency

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