Ji Bing Ni

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EDUCATION

Purdue University — West Lafayette, IN
Bachelor of Science in Computer Science — *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** on **Microsoft Azure** to deliver precise responses to customers, reducing reliance on call center agents
- Implemented a **React** interface that interacts with a **Flask** server and **RESTful API**, handling chatbot interactions, session management, and feedback submission via **Microsoft Azure**, resulting in a scalable chatbot
- Developed **5+ Pytest** cases, including tests for **OpenAI** connectivity, **RESTful API** endpoints, and **SQL** data accuracy, while using **CSS media queries** for 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 **ECELabs.io**, integrating **10+** components, including a dynamic navbar, interactive carousel, and collapsible FAQ, attracting new users
- Revamped **ECELabs.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, PostgresSQL, SQLlite
Developer Tools: Git, GitHub, Azure DevOps, LaTeX, VS Code, IntelliJ, Eclipse
Libraries: pandas, NumPy, Matplotlib, Beautiful Soup, SQLAlchemy