

# Yifei Fang

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## EDUCATION

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**Vanderbilt University** | Nashville, TN

**Expected May 2026**

**B.S. in Computer Science** | **B.A. in Economics**

**Relevant Courses:** Data Structures and Algorithms, Discrete Structures, Calculus III, Linear Algebra

## PROFESSIONAL EXPERIENCE

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**Developer** | **Friends Life Community** | Nashville, TN

**Sep 2023 - Present**

- Develop a tracking app to improve accountability for 75+ individuals with disabilities and 150+ caregivers
- Collaborate with designers to refine prototypes and implement responsive frontend features in **React Native**
- Draft, test, and write API endpoints in **Express.js** for seamless frontend integration and end-to-end experience
- Communicate with stakeholders to address the specific needs of individuals with IDD and their families

**UX Researcher** | **CareYaya** | Nashville, TN

**Sep 2023 - Present**

- Cooperate with a team of 7 and stakeholders to design an improved flashcards app for medical students by brainstorming ideas at meetings and gathering stakeholder input to meet technical requirements
- Conduct in-depth secondary research on existing flashcards apps to understand features and areas for improvement
- Design and execute interviews with medical students to identify needs and challenges related to flashcards apps
- Modeled low- and high-fidelity prototypes with **Figma** by incorporating data from interviews, surveys, and research

## PROJECTS

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**Habit Tracker** | Personal Project | [github.com/yifeifang11/rabits](https://github.com/yifeifang11/rabits)

- Integrated gamified features into a full-stack habit tracker using the **MERN stack** with user authentication
- Designed a RESTful API with endpoints for creating, updating, and deleting habits and game-related data
- Rendered a responsive and intuitive user interface to handle page navigation and display habits and progress bar

**AI Recipe Generator** | VandyHacks Project | [devpost.com/software/timeless-taste](https://devpost.com/software/timeless-taste)

- Collaborated with three teammates to implement a **ChatGPT API** in a **React** website with **Firebase** authentication
- Drafted a low-fidelity prototype using **Figma** and translated the final design to code using React and **Tailwind CSS**
- Programmed responsive design with **Google Maps API** to display nearest locations to enhance accessibility

**Word Unscrambling Game** | Personal Project | [github.com/yifeifang11/unscramble](https://github.com/yifeifang11/unscramble)

- Developed a full-stack word unscrambling game by writing a RESTful API to fetch, scramble, and send words
- Created a minimalistic frontend with scoring system using **React** and implemented word validation with **Express.js**
- Added gamified features like hints, a health bar, sound effects, and word rescrambling to boost user engagement

## TECHNICAL SKILLS & INTERESTS

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**Programming Languages:** Java, JavaScript, HTML, CSS, Python, C++, PHP

**Frameworks & Tools:** React, Node.js, Express.js, MongoDB, React Native, Firebase, Git, Figma, WordPress

**Interests:** Table tennis, Blogging, Writing, Hiking, Anime, Reading philosophy, Ultimate frisbee

## OTHER EXPERIENCE

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**Academic Tutor** | **Self-Employed**

**Feb 2021 - Present**

- Coach 12+ students aged 5-18, boosting grades and SAT scores by more than 20% within one semester
- Clarified complex concepts from students' perspectives by reviewing practice problems and providing mini lessons

**Server** | **Courtyard Cuisine** | **Sugar Land, TX**

**Summer 2023**

- Efficiently communicated and resolved conflicts to serve 50+ daily customers from diverse backgrounds
- Coordinated effectively with a small team and kitchen staff, ensuring smooth workflow in high-stress settings