

# Tiffany Fu

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**Relevant Links:** [LinkedIn](#) | [GitHub](#)

**Programming Languages:** Python, Java, C, C++, HTML, CSS, JavaScript, React, TypeScript, R, MATLAB

**Technologies/ Frameworks:** Git, Linux, Firebase, Adobe Suite, Figma, Arduino, numpy, pandas, Netlify, Bootstrap

## EDUCATION

**Columbia University** **September 2022 - May 2026**

- BS Computer Science, Dean's List | Relevant Courses: Data Structures and Algorithms (Java), Advanced Programming (C, SQL, Git), Discrete Mathematics, Multivariable Calculus, Intro to Computing for Engineers + Applied Scientists (Python), Linear Algebra, Computational Statistics, Art of Engineering

**Hong Kong University of Science and Technology**

**January 2024 - May 2024**

- Science Exchange Program | Relevant Courses: Operating Systems, Exploring AI, Integrated Systems Design: IoT, HCI

**Columbus North High School**

**August 2018 - May 2022**

- Honor's Diploma, Rank 4/500+ | Courses: AP Computer Science A (5), AP Statistics (5), AP Calculus BC (5), AP Physics (5), Mechanics (5), Electricity + Magnetism (5), AP Language + Composition (5), AP Psych (4), AP US Gov (5)

## PROJECTS

**Babylon Micro-Farms AI ChatBot** | [Github](#) | [Demo](#) | (OpenAI, React, CSS, Git) **2023**

- Developed an AI-powered customer support chatbot built with React and OpenAI Assistants API
- Collaborated with team of 3 software engineers to achieve 100% project completion and incorporate additional features
- Presented chatbot to Babylon Micro-Farms CTO and Head of Data Science showcasing technical and communication skills in front of group of 20 peers and instructors

**Web Server & Client in C** | [Github Gist](#) | (C, Vim, Linux)

**2023**

- Programmed TCP server that accepts HTTP requests and serves dynamic data, client program to receive data on the web

**GameHub** | [Github](#) | (React/TypeScript/ChakraUI/Vercel)

**2023**

- Built and deployed web application with custom search query and HTTP request operations to display video game info
- Implementation of front-end development libraries and deployment tools through 100% course completion

**TripSplit** | [Github](#) | (HTML/CSS/JavaScript/Firebase/Git)

**2023**

- Built full-stack web application to track, display, and calculate group trip shared expenses with Firebase DB connection
- Worked with partner to successfully finish hackathon project and pitch presentation to judges and 50+ peers

**Character Recognition Neural Network** | (Java)

**2022**

- Completed skeletal code of multilayer neural network to recognize handwritten English characters with 98% accuracy

## WORK EXPERIENCE

**Tom Pickett's Music Center**

**December 2018 - July 2022**

*Private Violin Instructor*

Columbus, IN

- Taught private lessons in music theory and violin techniques to over 20 students of beginner and intermediate level of all ages through weekly in-person lessons
- Built and published professional business website for Tom Pickett's, increasing online presence and attracting new customers to historic local store

**Columbus Indiana Philharmonic Summer Strings Camp**

**July 2020, 2021, + 2022**

*Violin Instructor and Camp Counselor*

Columbus, IN

- Taught young beginner level students the basics of violin playing and performance in week long summer camps
- Assisted in organizing and successfully leading end-of-camp concert for over 5 groups to an audience of 70+ members

## ADDITIONAL

**Honors + Awards:** Congressional App Challenge District Winner (2021), NCWIT Regional Affiliate (2022), Mathworks Math Modeling Technical Award Honorable Mention (2022), Girls Go CyberStart State Competitor + Top 3 Finish (2022), All-State First Team Doubles (2021), All-State Orchestra Violinist (2021)

**Leadership Positions:** CU SWE Community Outreach Committee Member, CU Tennis Club Vice President + Social Media Manager, CN Women's Tennis Captain, Environmental Club President, String Orchestra Concertmaster, Jazz Band Lead Alto

**Languages:** English (Native Proficiency), Mandarin (Professional Working Proficiency)

**Interests:** Film + Media, HCI, AI, Design, Tennis, Violin, Saxophone, Guitar, Philosophy, Travel, Nature