Tiffany Fu

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Programming Languages: Python, Java, C, C++, HTML, CSS, JavaScript, React, TypeScript, Golang, SQL, R, MATLAB
Technologies/ Frameworks: Arduino, Git, Linux, Firebase, Adobe Suite, Figma, numpy, pandas, Apache Kafka, Netlify

EDUCATION

Columbia University **September 2022 - May 2026**

- BS Computer Science, Dean's List (6/6), 3.8/4.0 | Relevant Courses: Data Structures and Algorithms (Java), Advanced Programming (C), Machine Learning (MATLAB), Natural Language Processing (Python), Fundamentals of Computer Systems (Assembly), Computer Science Theory, Discrete Mathematics, Differential Equations, Multivariable Calculus

Cornell University **May 2024 - Aug 2024**

- Machine Learning Foundations Certificate

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

PROFESSIONAL EXPERIENCE

Meta *Data Engineering Intern* **May 2025 - August 2025**

- Developed and optimized core data assets for AI Character Content growth analytics on FB/IG, enabling actionable insights that drove performance improvements across key goaling metrics
- Designed and implemented a key performance dashboard tracking 20+ metrics on producer engagement, growth, and retention, resulting in daily use by 10+ team members to inform decision-making
- Led the creation of a data pipeline and interactive dashboard for third-party AI Content, streamlining processes and enhancing data visibility for 20+ cross-functional partners

Break Through Tech *Artificial Intelligence/Machine Learning Fellow* **May 2024 - May 2025**

- Contributed towards 12-month long program including ML Certificate with Cornell University, experiential learning experiences, and mentorship from industry professionals

Voltus Inc. *Full Stack Software Engineering Intern* **June 2024 - August 2024**

- Engineered an end-to-end ETL pipeline to efficiently collect and process data from external APIs, integrating it into a Kafka topic to ensure real-time data streaming and reliability using Golang, Python, and SQLAlchemy
- Implemented storage solutions in Clickhouse DMS, optimizing data accessibility to achieve response times under 70 ms

Tom Pickett's Music Center *Private Violin Instructor* **December 2018 - July 2022**

- Taught private lessons in music theory and violin techniques to 20+ students of beginner and intermediate level of all ages through weekly in-person lessons

PROJECTS

EcoWare: Fitch Codeathon Winner | Github | DevPost | (React-Native, PostgreSQL) **2024**

- Developed web dashboards and mobile applications using React / React-Native with PostgreSQL and Prisma integration
- Authored comprehensive marketing plan detailing a reusable serviceware process for food vendors on Governors Island

J.P. Morgan Chase Data for Good Hackathon Participant | Github | Deck | (Pandas, Seaborn) **2024**

- Analyzed 20,000+ rows of data and implemented data visualization techniques to build a statistical optimization model
- Identified optimal location for expansion and presented insights to nonprofit founder, JPMC judges, and 30+ participants

AI Tools in the Legal Sector | Github | (LLM, NLP, Python, Colab) **2024**

- Developed AI-driven solutions including content generation, sentiment detection, and redaction for LegalDuel Platform

Babylon Micro-Farms AI ChatBot | Github | Demo | (OpenAI, React, Express, CSS, Git) **2024**

- Developed an AI-powered customer support chatbot built with React and OpenAI Assistants API
- Presented solution to Babylon Micro-Farms CTO and Head of Data Science in front of group of 20 peers and instructors

Web Server & Client in C | Github | (C, Vim, Linux) **2023**

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

ADDITIONAL

Honors + Awards: National Merit Finalist (2022), 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: COMS3136 Teaching Assistant, Design Tools Lab Research Assistant, CU Tennis Club Vice President, CU SWE Community Outreach Committee Member, CU Ratrock Video Staff Member
Languages: English (Native Proficiency), Mandarin (Professional Working Proficiency)
Interests: HCI, AI, Design, Embedded Tech, Film + Media, Tennis, Violin, Saxophone, Guitar, Philosophy, Travel, Nature