

Yuemeng Song

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EDUCATION

New York University

New York, NY, United States

B.S. in Computer Science and B.F.A. in Interactive Media Arts | GPA: 3.67

expected: June 2026

Relative Courses: Data Structures, Discrete Mathematics, Data Management and Analysis, Computer Systems Organization, Physical Computing and Experimental Interfaces, Minds and Machines

SKILL

Coding Language: Java, Python, JavaScript, HTML, CSS, C++, LaTeX

Coding Tools: pandas, Numpy, npm, node.js, three.js, Git, Github, Overleaf, Excel, Arduino, p5js, Langchain, Chromadb, DigitalOcean, GreenSock

Design: User Experience Design, Wireframing and Mockup Design, Illustration, Animation, Physical Computation Design

Design Tools: Adobe Illustrator, Adobe Photoshop, Adobe After Effects, Clip Studio Paint, Figma, Procreate, Arduino, Arduino IDE

PROFESSIONAL EXPERIENCE

Sensors Data

Haidian, Beijing, China

Analytics and Creative Development Intern

June 2024 - August 2024

Developed a collaborative chatbot from scratch using PandasAi, python, javascript, Chromadb, HuggingFaceEmbeddings, Langchain, Gradio, Ollama to analyze dynamic large scale datasets for validity check, trends, correlations, etc.

- Built private server with ssh tunnel for the chatbot due to circumstances in China
- Used pandas to store dataframe from CSV files, then imported the data to pandasai ydata profiling for overall data validity check
- On top of the features of sending profile reports for raw data, added chat feature for chatbot using Chromadb assistance according to Company guidelines and user manual for technical support and application navigation support

Helped Translate official documents and websites

Helped proof-read front-end experience

Align Tech

Remote (CA)

Logo Designer

September 2020 - December 2020

- Using Adobe Illustrator and Adobe Photoshop, created logo templates for in-company teams
- Created official logos for in-company teams with weekly report and discussion meetings with client

PROJECT EXPERIENCE

Personalized Chatbot

December 2023

Developed a Personalized chatbot with OpenAI API, node.js, npm, nodemon, javascript, html, and CSS

- Imported personality as document database for System instructions for the chatbot, and using Digital Ocean service as Cloud Host, provided online hosted 24-hour chatbot with customizable personalities
- Ensured strong personality and background (non-ai cognition) for the chatbot

Arduino Mystery Alarm

February 2024

Co-Developed an Interactive Alarm clock that doesn't stop until the player solves all 5 sides of the box puzzle

- materials: potentiometer, 3D printed knob, LED, buttons, Arcade buttons, Arcade Joystick, and OLED display, laser-cut shell, shift register, resin printers
- partial documentation: <https://dylmcfar.notion.site/Project-1-Mystery-Controls-9070eab85d9944f182904d26696195a0>
- coded with arduino 33IoT using C++

3D-Integrated Interactive Website

April 2024

Developed a Interactive website for 3D models using javascript, html, npm, three.js and raycasting models

- Using three.js structure and private models, built a website that plays audio and reacts to user clicks and keyboard inputs
- Added lighting and animation of the model with GreenSock

LANGUAGES

- Chinese (Mandarin) Native
- English (Bilingual)