

Yuedi (Eddy) Liang

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EDUCATION

University of Southern California M.S. in System Architecting and Engineering, Data Science Track	Aug 2021 – Dec 2022
The Ohio State University B.S. in Computer & Information Science, Artificial Intelligence Track	Aug 2016 – May 2020

SKILLS

- Programming Languages: Python, Java, JavaScript
- CSS Frameworks/Tools: PyTorch, Flutter, React, AWS, GCP, MongoDB, Firebase

WORK EXPERIENCE

BrainCo <i>Software Engineer Intern</i>	Boston, MA Aug. 2022 – Dec. 2022
<ul style="list-style-type: none">• Built data-centric infrastructure to accelerate ML lifecycle and allowed R&D to design customized experiments• Implemented data labeling Flutter mobile app in MVVM architecture that connected with hardware devices• Labeled brain emitted EMG, EEG signals with AR facial and body movement capturing and other native inputs	
Flashcard <i>Full Stack Engineer / Co-Founder</i>	Urumqi, China Oct 2020 – Jul 2021
<ul style="list-style-type: none">• Co-Founded an online platform to facilitate one-on-one English tutoring during COVID-19 social distancing• Created cloud MongoDB database hosted by Tencent Cloud, and offered backend services through Rest API• Designed website with React, deployed with Node.js, and achieved peak DAU of 40+ students	
GF Securities <i>Frontend Software Engineer</i>	Guangzhou, China Aug 2020 – Dec 2020
<ul style="list-style-type: none">• Maintained the company portfolio management software frontend built in React and deployed on Alibaba Cloud• Upgraded input form by introducing component library AntD to replace barebone HTML and CSS• Automated Excel financial statement uploaded, reducing manual work by 75%	

PERSONAL PROJECTS

Mini-GPT: Generative Text Transformer (GitHub: https://github.com/Emericen/mini_gpt)	
<ul style="list-style-type: none">• Implemented self-attention, and multi-head attention units in PyTorch• Utilized tokenization and embedding techniques to prepare input data for the model• Successfully trained a decoder transformer model with 10M+ parameters to generate random Shakespeare-like texts	
Generative Diffusion Model for Fake Faces (Demo: emericen.github.io)	
<ul style="list-style-type: none">• Built forward and backward diffusion process to add noise to images• Created simplified U-Net with embedded timestep in PyTorch for image restoration• Scraped 30,000 fake face images from thispersondoesnotexist.com to use as the training set• Achieved reasonable fidelity with training done on personal RTX 3060 GPU	
Airbnb Clone: A Location-Based Home Search (GitHub: https://github.com/Emericen/staybooking-backend)	
<ul style="list-style-type: none">• Built user authentication, location-based searching, date confirming, and checkout• Used React for frontend and Spring for backend. Connected both using Rest API written in Node.JS• Deployed with Docker on AWS, and utilized geo-location-based Elastic search provided by GCP	

HACKATHON EXPERIENCE

2023 Scale AI LLM & Generative AI Hackathon	
<ul style="list-style-type: none">• Created a chat-based browser bot that acts on abstract language commands, similar to Adept.ai's action transformer• Gathered team of 6, and utilized prompt engineering on GPT-3 to create prototype capable of summarizing emails	
2020 HackOHI/O	
<ul style="list-style-type: none">• Built training data sampling Flutter app for ML that rewards users to contribute data such as pictures and audio• With team of 4, gathered hand pictures among participants and trained gesture recognition model. Won 2nd place.	