ALLEN LU

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Education

New York University | Tandon School of Engineering – Brooklyn, NY
- B.S. in Integrated Design & Media (IDM)   May 2020
- *Activities:* Honors Program, Urban Food Lab, NYU Motorsports, EcoReps

Professional Experience

Senior Creative Engineer | IPG Health – New York, NY   June 2020 – Present
- Brainstorm with creative teams and elevate ideas with emerging technology & innovation
- Research and stay informed on the latest technological trends (spatial computing, gaming, IoT, etc.)
- Rapid prototype & develop multimedia solutions for conference booths and digital environments
- Create immersive web apps and websites for doctors and internal teams using React & HTML/CSS/JS
- Produce voice & chat solutions through NLU/NLP models, utilizing Conversational and Generative A.I.
- Collaborate with teams across the network, i.e. creative, design, medical, account, PM, webops
- Lead in-office client tours, presenting team capabilities and offerings
- Facilitate in-office workshops on emerging technology, such as Generative A.I.

UX/UI Designer & Researcher | ClearOPS – Brooklyn, NY   Feb 2020 – May 2020
- Performed usability testing on the ClearOPS web application and compiled 12-page usability report
- Designed low and high-fidelity wireframes and interactive prototypes to be discussed with team
- Collaborated with developer to implement UI changes (based on wireframes) using React.js

Human-Computer Interaction Designer | Sencity Corp. – New York, NY   May 2019 – Aug 2019
- Designed public IoT-enabled prototypes and services that promote public health and sustainability
- Facilitated weekly "design spars" and led workshops on physical computing and service design
- Trained with Lead Interactive Designer and applied principles of UX to company projects

Professional Projects

DELCI Digital Ambassador | IPG Health – New York, NY   Dec 2021 – Dec 2023
- Implemented both frontend and backend of **DELCI**, a virtual assistant chat solution for doctors
- Programmed desktop, mobile, and tablet environments using React.js, ensuring responsive design
- Developed Conversational A.I. backend using Dialogflow ES fulfillment, mapping intents and entities
- Integrated site analytics and created dashboard for client and account teams
- Collaborated with creative, design, medical, and account teams to ensure project success

Urban Flood Monitor | NYU Tandon – Brooklyn, NY   Sept 2019 to Dec 2019
- Prototyped and installed flood monitoring device to detect flood events in the Gowanus Canal
- Created computational system in Python to *record* and *send* data such as depth, time, and temp.
- Devised and tested a Twitter Bot to tweet out flood status to followers of the account

Skills

Programming (web) – HTML/CSS/JavaScript, React, Next.js, Tailwind, Python, Processing, p5js; Azure DevOps
Programming (games) – Gamemaker, Unity, Playcanvas
Creative Technology & Related – Spatial Computing, Arduino, Raspberry Pi, Maya, 3D printing
Generative AI – Jasper AI, Midjourney, DALLE 2, ChatGPT
Conversational AI – Dialogflow ES/CX, NLP/NLU, Alexa skills, Kommunicate
Digital Media – Clip Studio Paint; Adobe: Photoshop, Illustrator, Figma, Premiere Pro, After Effects
Languages – Chinese (native), Spanish (proficient)