Hudson Treu

Design Technologist

hudsontreu.com
hudsontreu55@gmail.com
https://www.linkedin.com/in/hudsontreu/
713-715-8430

Objective

Designer and developer with 6 years of experience creating interactive experiences that bridge the physical and digital worlds. Specializing in UX/UI design, machine learning, front-end engineering, and prototyping with emerging technology, I aim to shape innovative interaction paradigms and deliver experiences that empower, delight, and connect people through technology.

Education

Georgia Institute of Technology
M.S. Human-Computer Interaction | GPA 4.0
Atlanta, GA | 2022 - 2024

Kansas State University
B.S. Psychology | GPA 3.94
Manhattan, KS | 2016 - 2018

Massachusetts Institute of Technology
Certificate, Designing and Building AI Products
Online | Summer 2023

New York University
Tandon Bridge to Computer Science
Online | Summer 2022

ICON Collective College of Music
Certificate, Audio Production
(Student of the Year)
Online | 2020-2022

Toolkit

Design

Figma	Design Systems
Adobe Suite	Design Thinking
Framer	Wireframing
Notion	Prototyping

Development

HTML5	Node
CSS	React
JavaScript	Angular
Typescript	Svelte
Python	Next.js
GLSL	Git
Tailwind	VSCode

Media

Arduino	MaxMSP
Raspberry Pi	TouchDesigner
three.js	Ableton Live
p5.js	Brightsign

Work Experience

Design Technologist | *SageNet*
Atlanta, GA | 2024 - Current

- Serve on a diverse R&D team to create innovative digital solutions at all scales, from SaaS platforms and interactive AI systems to IoT networks and 0-to-1 solutions, contributing expertise in experience design, UI design, and front-end engineering.

UX Designer | *Aayats*
Atlanta, GA | 2024

- Led mobile application design and assisted in development of Aayats' AI-driven music production application.

Graduate Teaching Assistant: Expressive Computation | *Georgia Tech*
Atlanta, GA | 2023

- Instructed HCI master's students on programming interactive visual media with JavaScript and prototyping with microcontrollers.
- Produced lesson plans and code examples, facilitated lab sessions, and provided one-on-one project support.

Medical Case Manager | *Mind Springs Health*
Vail, CO | 2019 - 2022

- Aided psychiatric team through database management, clinical chart upkeep, and reporting.
- Directed staff through training, team management, policy development, and process improvement initiatives.

Research Assistant | *Kansas State Visual Cognition Lab*
Manhattan, KS | 2018

- Prepared, executed, and analyzed vision and memory experiments on scene perception.

Selected Projects

AI Kiosk | *2024*

- Pioneered a high-performance voice ordering kiosk using ChatGPT API, delivering seamless, accessible, multi-modal interaction through end-to-end experience design, UI design, and development.

v.4MP | *2024*

- Executed an iterative UX research, design, and development process to deliver an intuitive music visualization tool, filling gaps in existing software to meet the specific needs of free improvising performers.

Extension of Community: Gather the Forest | *2023*

- Produced a large-scale interactive media installation for Atlanta's Extension of Community exhibition, using TouchDesigner, Python, JavaScript, MaxMSP, and AI to raise awareness of technology's impact on climate change, engaging over 300 participants.

Accessible Safari | *2023*

- Developed an object detection and sonification web app to advance accessible tourism technologies, enhancing auditory scene analysis for the visually impaired.
- Leveraged MaxMSP and Node.js to enable real-time response to YOLOv8, boosting processing speeds by 3x over the previous framework.

Awards

- Dr. Gerald Lage Academic Achievement Award (The Big 12 Conference's highest academic honor)
- Kansas State Deans List • Big 12 All-Academic Team • Phi Kappa Phi Honor Society