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Kai-Chieh Huang

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EMPLOYMENT

Software Engineer (Full Stack)　　　　**Sambanova Systems**　　　　　　　　**Jun'21 - Feb'23**
- Architected scalable API and data schema between frontend and backend of the company's profiling tool, enabling engineers to add UI components quickly without needing frontend code change. [React, Flask]
- Designed and developed UX/UI for the company's flagship AI platform (Dataflow-as-a-Service) and a profiler. [React, FastAPI, Flask, Kubernetes, Figma]
- Wrote automated tests to prevent regression. [React Testing Library, Jest, PyTest]
- Created prototype applications under tight schedules, allowing clients to quickly comprehend the value of products.

Frontend Developer, Intern　　　　　　**Trend Micro**　　　　　　　　　　**May'20 - Jul'20**
- Increased data management efficiency threefold by creating a full stack [React, Sass, Node.js, SQLite] tool, beginning from user research and wireframes, which enables engineers to upload, visualize, and organize data on a browser.
- Reduced load time of our client-facing React web application by 92% by pinpointing bottlenecks using DevTools then applying dynamic loading and circumventing excessive DOM node manipulation.
- Enhanced UX by checking the web application UI against design principles (familiarity, predictability, and synthesizability) then coordinating with backend engineers, designer, and manager to make appropriate changes.

Mobile App Developer, Part-time　　　**Georgia Institute of Technology**　　　**Jan'20 - May'20**
- Created a mobile app with React Native that enabled individuals with multiple sclerosis to record and review their health history.

EDUCATION

M.S., Human Computer Interaction　　**Georgia Institute of Technology**　　　**Aug'19 - May'21**
- GPA: 4.0
- Relevant Coursework: Interface Prototyping; Information Visualization; Mobile App and Services; Evidence-Based Design; Research Methods for HCI; Ubiquitous Computing.

B.S., EE (CS & IC Specialization)　　　**National Taiwan University**　　　　　**Sep'11 - Jun'15**
- GPA: 3.69
- Relevant Coursework: Data Structure and Programming; Networking and Multimedia; Special Project in Computer Vision; Computer Programming; Introduction to Computer Networks; Introduction to Computer.

TECHNICAL EXPERIENCE

Lead Developer / Web Developer　　　**Class Project at GA Tech**　　　　　　**Aug'20 - May'21**
- Coordinated the team's development process by architecting a development environment (Vanilla JS, CSS, HTML), teaching teammates how to use GitHub, and revising teammates' code.
- Visualized thousands of rows of satellite data by creating a scrollytelling style introduction, drawing and animating data using SGVs and canvas with D3.js, and optimizing data rendering and geometric calculations.

Publication

Glissade: Generating Balance Shifting Feedback to Facilitate Auxiliary Digital Pen Input
- 1st author of a full paper which received honorable mention award (top 5%) at CHI'20, a top HCI conference.

Languages and Technologies

- Languages: JavaScript (primary); HTML; CSS; Typescript; Python; C++.
- Technologies: React; Redux; Sass; D3.js; Node.js; Flask; React Testing Library; Jest; PyTest; SQLite; Angular; Git.