

# HSIAO-CHING “KELLY” SU

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## EDUCATION

### Georgia Institute of Technology - Atlanta, GA

Aug. 2018 - May 2020

- Master of Science in Computer Science, Human-Computer Interaction Specialization; GPA: 3.5/4.0
- Courses: Information Visualization, Computational Photography, Principles of UI Software, ML, Design & Analysis: Algorithms, Computer Graphics
- Taught Information Visualization course (CS4460), gave live coding lectures about D3.js, graded assignments, and held office hours

### National Taiwan University (NTU) - Taipei, Taiwan

Sep. 2012 - Jun. 2016

- Bachelor of Business Administration in Information Management; GPA: 3.43/4.0
- Courses: Programming Languages, Programming Design & Data Structures, Fundamental OOP, Operating Systems, UX Design

## EXPERIENCE

### The Climate Corporation - Software Engineer - Seattle, WA

Jul. 2020 - Present

- Led new testing framework migration by configuring and implementing tests in two frameworks, building CICD pipeline, and evaluating five frameworks
- Maintained team's test repository by collaborating with other teams to fix testing dependencies and serving as owner for code reviews
- Proposed strategy to improve test reliability and coverage; developed plan to remove external dependency to improve stability and flakiness
- Reduced time to route and root cause QA tickets by teaching QA to write more precise tickets

### The Climate Corporation - Software Engineer Intern - San Francisco, CA

May 2019 - Aug. 2019

- Implemented end-to-end tests for shopping cart and checkout flow using webdriverio; completed unit test coverage with Jest
- Built end-to-end testing project from scratch for knowledge base web app and incorporated automated test runs into CICD pipeline
- Developed testing metrics and notifications on Jenkins and Slack using Bash, which became an essential reporting tool for the team

### 21 Vianet Group Inc. - Front-End Engineer - Taipei, Taiwan

Jul. 2016 - Jun. 2017

- Developed a monitoring platform to collect data from endpoint machines, raise alarm messages, and group and filter entities
- Built visualization tools for CDN infrastructure metrics to help operation engineers monitor entities and investigate alerts
- Created open-source Vue.js UI components with >95% code coverage using Jest; 📦 vue-owl-ui
- Mentored junior colleague on front-end and JavaScript development skills to contribute new UI components

### MediaTek - Software Engineer Intern - Taipei, Taiwan

Jul. 2015 - Aug. 2015

- Developed internal tool to dynamically modify MediaTek Cloud Sandbox (MCS) pages; wrote tutorials to connect microcontrollers to MCS

## SOFTWARE ENGINEERING SKILLS

- Programming languages: JavaScript, Python, Java
- Frameworks & tools: React, Redux, Vue, D3.js, Node.js, Jest, Webpack, Java Swing, Android, SQL, OpenGL, Selenium, Jenkins, git
- Software: Illustrator, Photoshop, Adobe XD, Sketch, Tableau

## PROJECTS

### Bimanual Interactions for Tablet Note-Taking App - Atlanta, GA - 📱 NoteTakingApp

Aug. 2019 - Dec. 2019

- Defined bimanual interactions for note-taking app on Android tablets to allow the non-dominant hand to perform touch commands
- Implemented thumb tool menu for non-dominant hand; pen, eraser, and selection tools; multi-touch commands; and bimanual copy and paste

### Texture Synthesis - Atlanta, GA - 🎮 Texture-Synthesis

Jan. 2019

- Created a web applet to generate a texture from an input image to fill larger dimensions using OpenProcessing and OpenCV
- Implemented feature to add randomness to the output image to make the synthesis look more natural

### Movie Dialogues Visualization - Atlanta, GA - 🎬 movie-dialogues; 📦 KeepItReal

Aug. 2018 - Dec. 2018

- Created a visualization tool to let users explore conversation ratios between sexes and conversational themes across decades and genres
- Preprocessed data using Python, generated questions and hypotheses about the dataset, and verified them with Tableau
- Rated as one of the top projects in class and became a model for the professor's future classes

### Hack The Library - Taipei, Taiwan - 📖 NTU-Library; 📦 HackTheLibrary

Feb. 2015 - Dec. 2015

- Designed and developed an intuitive and informative map view UI for the library study area's seat arrangement system with D3.js and SVG
- Conducted user research, including interviewing users and collecting and analyzing 700+ questionnaires