

# Nicholas Chiang

HIGH SCHOOL STUDENT · WEB DEVELOPMENT · COMPUTER SCIENCE

Palo Alto, California · No visa sponsorship required to work in the US

✉ nicholas@tutorbook.org | 🏠 nicholaschiang.com | 🌐 nicholaschiang | 📺 nicholaschiang

## Skills

<b>Programming</b>	TypeScript, JavaScript, HTML, CSS, Sass/SCSS, Python, Java, Make, $\LaTeX$
<b>Applications</b>	Photoshop, Lightroom, Premier Pro, After Effects, Inkscape, FL Studio
<b>Frameworks</b>	Next.js, React, Cypress, Firebase
<b>Systems</b>	Vim, Git, Linux, AWS, GCP, CI/CD

## Experience

### Stanford University

Palo Alto, CA

#### RESEARCH INTERN

2018-09–2019-05

- Designed a methodology for building hardware component knowledge bases using machine-learning.
- Extracted both textual and non-textual information to create relational databases for hardware components.
- Produced application studies that highlight how these databases make hardware component selection easier.

### Tutorbook

Palo Alto, CA

#### CREATOR

2019-02–Present

- Created a web app used by schools and nonprofits to connect students with volunteer tutors and mentors.
- Worked with two schools and three nonprofits that serve over 5000 students and 1000 volunteers.
- Drafted a privacy policy and a terms of use compliant with California's CSDPA v2.
- Wrote and configured continuous integration for Cypress tests (74% code coverage).
- Contributed to open-source libraries such as React, Next.js, RMWC, and the Firebase SDK.

### Hammock

San Francisco, CA

#### DEVELOPER

2021-04–Present

- Developed a web app where you can enjoy reading and learning from newsletters.
- Increased page speed by migrating client-side business logic to serverless API functions.
- Protected against XSS by sanitizing email HTML server-side.
- Worked with Google's OAuth2, People, and Gmail APIs.

### Niveaux de Gris

Palo Alto, CA

#### DEVELOPER

2019-08–2020-01

- Developed an ecommerce website using Stripe, HTML, and vanilla JavaScript.
- Designed the antigone t-shirt collection using Adobe Illustrator.

## Publications

2020	<b>Creating Hardware Component Knowledge Bases with Training Data Generation and Multi-task Learning</b>	ACM TECS
	L. Hsiao, S. Wu, <b>N. Chiang</b> , C. Ré, and P. Levis	
	📄 <a href="https://sing.stanford.edu/site/publications/tecs20hack.pdf">sing.stanford.edu/site/publications/tecs20hack.pdf</a> · 🌐 <a href="https://github.com/lukehhsiao/tecs-hardware-kbc">github.com/lukehhsiao/tecs-hardware-kbc</a>	
2019	<b>Automating the Generation of Hardware Component Knowledge Bases</b>	LCTES
	L. Hsiao, S. Wu, <b>N. Chiang</b> , C. Ré, and P. Levis	
	📄 <a href="https://sing.stanford.edu/site/publications/hack-lctes19.pdf">sing.stanford.edu/site/publications/hack-lctes19.pdf</a> · 🌐 <a href="https://github.com/lukehhsiao/lctes-p27">github.com/lukehhsiao/lctes-p27</a>	

## Interests

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### **Silicon Valley Karate**

BROWN BELT

- Assisted in instructing lower belt levels.

*Palo Alto, CA*

*2016-01–Present*

### **Boy Scouts of America**

EAGLE SCOUT

- Practiced archery, shotgun shooting, climbing, canoeing, etc.
- Received CPR certification and other first-aid training.
- Earned 27 merit badges and an Eagle Palm.

*Palo Alto, CA*

*2016-01–2020-01*