Nicholas **Chiang**

HIGH SCHOOL STUDENT · WEB DEVELOPMENT · COMPUTER SCIENCE

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

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Skills

Programming	TypeScript, JavaScript, HTML, CSS, Sass/SCSS, Python, Java, Make, LaTeX
Applications	Photoshop, Lightroom, Premier Pro, After Effects, Inkscape, FL Studio
Frameworks	Next.js, React, Cypress, Firebase
Systems	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	**Creating Hardware Component Knowledge Bases with Training Data Generation and Multi-task Learning**	*ACM TECS*
	L. Hsiao, S. Wu, **N. Chiang**, C. Ré, and P. Levis	
	📄 *sing.stanford.edu/site/publications/tecs20hack.pdf* · ⑂ *github.com/lukehsiao/tecs-hardware-kbc*	
2019	**Automating the Generation of Hardware Component Knowledge Bases**	*LCTES*
	L. Hsiao, S. Wu, **N. Chiang**, C. Ré, and P. Levis	
	📄 *sing.stanford.edu/site/publications/hack-lctes19.pdf* · ⑂ *github.com/lukehsiao/lctes-p27*	

Interests

Silicon Valley Karate   *Palo Alto, CA*
BROWN BELT   *2016-01–Present*
- Assisted in instructing lower belt levels.

Boy Scouts of America   *Palo Alto, CA*
EAGLE SCOUT   *2016-01–2020-01*
- Practiced archery, shotgun shooting, climbing, canoeing, etc.
- Received CPR certification and other first-aid training.
- Earned 27 merit badges and an Eagle Palm.