

# Nicholas Chiang

Software Engineer · Full-Stack Web Development · Photography

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

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## Skills

**Programming** JavaScript, Python, Java, TypeScript, SCSS, Make, Bash,  $\LaTeX$   
**Applications** Photoshop, Premier Pro, Inkscape, Ableton, FL Studio  
**Technology** React, Next.js, Cypress, PostgreSQL, Firebase  
**Tooling** Vim, Git, Linux, AWS, GCP, CI/CD

## Experience

### Software Engineer

Palo Alto, CA

[Tutorbook](#) · [tutorbook.org](#)

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.

### Software Engineer

San Francisco, CA

[Hammock](#) · [readhammock.com](#)

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.

### Research Intern

Palo Alto, CA

[Stanford University](#) · [sing.stanford.edu](#)

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.

### Software Engineering Intern

Palo Alto, CA

[Niveaux de Gris](#) · [niveauxdegr.is](#)

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  
Luke Hsiao, Sen Wu, **Nicholas Chiang**, Christopher Ré, and Philip Levis  
📄 [sing.stanford.edu/site/publications/tecs20hack.pdf](#) · 🌐 [github.com/lukehhsiao/tecs-hardware-kbc](#)
- 2019 **Automating the Generation of Hardware Component Knowledge Bases** LCTES  
Luke Hsiao, Sen Wu, **Nicholas Chiang**, Christopher Ré, and Philip Levis  
📄 [sing.stanford.edu/site/publications/hack-lctes19.pdf](#) · 🌐 [github.com/lukehhsiao/lctes-p27](#)