

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](#)

2021-04–2021-12

- 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](#)