

San Francisco Bay Area

+1 (408) 666 6698

kywang@alumni.stanford.edu

[linkedin.com/in/karen-y-wang](https://www.linkedin.com/in/karen-y-wang)

github.com/karen-wang/writing-samples

Karen Y. Wang

SUMMARY Former software engineer with 5+ years of experience streamlining systems, working cooperatively on teams, and writing for a technical audience. Demonstrated ability to learn quickly in new domains.

EXPERIENCE **Google, *Software Engineer 3***

Pixel Modem Tooling, *Taipei City, Taiwan*

06/2021—09/2022

- Led a Python project to compute theoretical limits for the radio frequency front-end. Fixed ~500 modem configuration bugs and improved downlink throughput by ~230Mbps in P21/22 projects.
- Wrote the project design document detailing the high-level implementation strategy and key design decisions. Worked with hardware engineers and managers to research requirements. Iteratively incorporated revisions and feedback from teammates.
- Taught and developed educational materials for a study group of external candidates preparing for the software engineering interview (50+ students; instruction in English and Mandarin Chinese).
- Continuously contributed to company-wide documentation. Top 1% of typo fixers at Google.

Google, *Software Engineer 2*

Geo Data Foundations, *Mountain View, CA, USA*

10/2019—06/2021

- Led the migration effort for a legacy RPC, fixing a longstanding bug affecting 3% of all quality measurement workflows in 2020.
- Wrote the user guide and FAQ for affected teams describing anticipated changes to their workflow (~200 readers worldwide, including program managers and data entry operators).
- Collaborated with a teammate to research and write an org-wide monthly report covering ongoing latency improvements (~100 readers, including program managers and the org director).

Cloud Infrastructure, *New York City, NY, USA*

12/2017—10/2019

- Migrated the company-wide package management system to a new checksum, fixing a known vulnerability to collision attacks in the build system.
- Worked cross-functionally with stakeholders across multiple orgs to conduct integration testing, including a 24-hour experiment affecting all production builds.
- Wrote promotional newsletters for the NYC chapter of the bubble tea club (250+ readers).

Code in Place, *Instructor*

04/2020—05/2020

- Taught and developed weekly educational materials for an intro-to-coding course (~10 students).

Freelance Editor

05/2012—08/2012

- Collaborated with Prof. Yuming Zhang to edit *Roots and Branches*, a book for English speakers studying Mandarin Chinese. Adhered to guidelines specified in *The Elements of Style* by William Strunk Jr.

EDUCATION **Stanford University**

M.S. Computer Science

2016—2017

B.S. Computer Science

2012—2016

SKILLS **Programming Languages:** Python, JavaScript, Java, C++, C, SQL, HTML, Markdown
Tools & Systems: Git, Mercurial, Linux, LaTeX, Jupyter