

# Qingwei Zeng

expected graduation: **March 2020**

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## Education

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|---|---|---------------------|
| University of California, Los Angeles   | Mathematics of Computation [B.S.] (GPA 3.771) | Jun 2018 - 2020     |
| ◦ Probability Theory, Advanced Linear Algebra, Analysis, Optimization ( <i>in progress</i> ), Data Mining ( <i>in progress</i> ). |   |                     |
| University of California, Berkeley  | Cross Enrollment (GPA 3.850)                  | Jan 2017 - Aug 2017 |
| ◦ Structure and Interpretation of Computer Programs, Data Structures, Computational Models of Cognition.                          |   |                     |
| Harbin Institute of Technology  | Computer Science                              | Sep 2013 - Aug 2015 |
| ◦ Algorithms, Probability Theory, Assembly Language, Set Theory, Graph Theory, Computer Architecture.                             |   |                     |

## Work Experiences

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|---|---|---------------------|
| AI Frontiers Conference   Sunnyvale, CA   | Full Stack Developer [Javascript]       | Sep 2016 - Present  |
| ◦ Co-organized the conference since 2017, which have 1,400 attendees each year.   |   |                     |
| ◦ Built and maintains a responsive and search-engine-optimized website <a href="#">[link]</a> with over 4,000 users.  |   |                     |
| ◦ manages, tracks and quantifies digital marketing such that cost stays low while conversion stays high.  |   |                     |
| ◦ Utilizes Google Cloud Functions to enable a serverless website which had zero server error and zero down time.  |   |                     |
| Teambition   Shanghai, China  | Front-end Developer Intern [Javascript] | Sep 2015 - Dec 2015 |
| ◦ Integrated Evernote, GitHub, and other third-party apps into Teambition so that users gets update notifications.  |   |                     |
| ◦ Upgraded the interface of the permission system, enabling a finer control within and across organizations.  |   |                     |
| ◦ Built Teambition's blog and career site with Wordpress and nodeJS, both sites now have over 10,000 pageviews.   |   |                     |
| UC Berkeley EECS Dept.   Berkeley, CA   | Teaching Assistant [Java]               | Jun 2017 - Aug 2017 |
| ◦ Taught concepts covering knowledge of data structures (hash tables, heaps, stacks, queues, tries, BSTs, linked lists, etc.), graph traversal algorithms (Dijkstra's, Kruskal's), sorting algorithms (Quicksort, Mergesort), runtime analysis, and more. |   |                     |
| IO Design Group   Harbin, China   | Founder                                 | Sep 2014 - Aug 2015 |
| ◦ Drafted the design guideline for Harbin Institute of Technology Model United Nations and other major events.  |   |                     |
| ◦ Designed for Harbin Institute of Technology's Model United Nations Conference and managed the production of all materials.  |   |                     |
| ◦ Coordinated the design of Harbin Institute of Technology's 2015 yearbook <a href="#">[View]</a> which was distributed internationally.  |   |                     |
| ◦ Co-organized the first <i>Global Innovators' Forum of Technology and Society</i> with 140 attendees.  |   |                     |

## Personal Projects

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|---|-------------------------|------|
| Drift - Delivery Along the Way  | Go, Python, JavaScript  | 2018 |
| ◦ Designed a delivery system that utilizes existing traffic to delivery packages with maximized efficiency.               |                         |      |
| ◦ Used Hungarian algorithm and local clustering to match deliveries with deliverers which minimize the total cost.        |                         |      |
| ◦ Wrote a Go server which used channels and goroutines to handle potential mutex in communications among clients.         |                         |      |
| ◦ Wrote a Python server with a visualization of the simulation and routes using Google Maps API and Google Firebase.      |                         |      |
| Math Notes <a href="#">[Link]</a>   | HTML5, CSS3, Javascript | 2018 |
| ◦ Built and designed a website that displays LaTeX notes with clear legible layout optimized for both desktop and mobile. |                         |      |
| ◦ Designed efficient navigation through all the notes with anotations and collapsable proofs and solutions.               |                         |      |
| Reedly <a href="#">[Link]</a>   | Sketch, Photoshop       | 2017 |
| ◦ Built A prototype for an elegant Android RSS reader, designed for both mobile and tablet use cases.                     |                         |      |
| ◦ Followed the material design guideline with careful consideration for both usability and customizability.               |                         |      |

## Skills & Interests

more proficient ● ● ● ● less proficient

Parallel computing: knows how to use ISPC and CUDA to optimize programs in different parallel settings.

Data Structure & Algorithm: solid data structure and algorithm understanding with mathematical insight.

Programming Languages: ● Java ● Python ● Javascript ● Go ● Kotlin ● C ● C++ ● HTML & CSS ● Swift ● SQL.

Design and Prototyping Tools: ● Sketch ● Photoshop ● After Effects ● Indesign ● Principle ● Processing.

Frameworks & Tools: ● CUDA ● ISPC ● Git ● Unix ● Express ● Django ● Gulp ● Vue ● React ● Hexo ● Hugo.

Interests: Podcasts: *Recode Decode*, *Y Combinator's*, *Google Methods*. Cooking. Photography. Communistic shared living.