

# 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 3.788)      Jun 2018 - 2020
- Probability Theory (A), Advanced Linear Algebra (B+), Analysis (In progress).
- University of California, Berkeley      Cross Enrollment (GPA 3.850)      Jan 2017 - Aug 2017
- Structure and Interpretation of Computer Programs [Python, Scheme, SQL] (A+), Data Structures [Java] (A-), Computational Models of Cognition [Python with scipy, etc.].
- 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      Sep 2016 - Present
- Builds responsive websites [\[link\]](#) with NodeJS manages digital marketing through Google Marketing Platform, etc.
  - Works on SEO by implementing structured data and rich snippets and others which boosted site traffic by hundreds.
  - Builds analytics flow for site traffics, orders and ad performance, allowing the team to keep track of all stats in real time.
  - Makes the website serverless by utilizing Google Cloud Functions, maximizing flexibility while minimizing server errors.
  - Provides a fast, easy, and safe backend with generator scripts to update and deploy the website.
- Teambition | Shanghai, China      Front-end Developer Intern      Sep 2015 - Dec 2015
- Integrated Evernote, GitHub, and other third-party apps into Teambition so that users gets notifications within Teambition.
  - Upgraded the front-end of the permission system, enabling a finer control of collaboration projects within and between organizations.
  - Built Teambition's blog site using Wordpress and PHP, and its career site with nodeJS; both sites are still used today.
- UC Berkeley EECS Dept. | Berkeley, CA      Teaching Assistant      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 the school's 2015 yearbook [\[View\]](#) which is used internationally by coordinating a team effort.

## 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 [\[Link\]](#)      HTML5, CSS3, Javascript      2018
- Developed and designed a website that can display LaTeX notes with sleek design and clear legible layout.
  - Designed nice and easy navigation through all the notes with anotations and collapsable proofs and solutions.
- Reedly [\[Link\]](#)      Sketch, Photoshop      2017
- A prototype for an elegant Android RSS reader, designed for both mobile and tablet use cases.
  - Follows the material design guideline with careful consideration for both usability and customizability.

## Skills & Interests

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