

# Qingwei Zeng

expected graduation: **March 2020**

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## Education

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> ), Linear and Nonlinear Systems ( <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

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

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.