

# QINGWEI ZENG (Jim Zenn)

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## EDUCATION

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UNIVERSITY OF CALIFORNIA, LOS ANGELES	2018-2020	APPLIED MATHEMATICS
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- Works in a project that uses Spark, AsterixDB, and Zeppelin to support big data analytics in cluster.

UNIVERSITY OF CALIFORNIA, BERKELEY	CROSS ENROLLMENT	COMPUTER SCIENCE
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- Structure and Interpretation of Computer Programs, Data Structures, Computational Models of Cognition.

HARBIN INSTITUTE OF TECHNOLOGY	2013 - 2015	COMPUTER SCIENCE
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- Algorithms, Probability Theory, Numerical Methods, Modern Algebra, Assembly Language, Set Theory, Graph Theory, Computer Architecture.

## PROFESSIONAL EXPERIENCE

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UNIVERSITY OF CALIFORNIA, BERKELEY	LAB ASSISTANT FOR DATA STRUCTURES	Jun 2017 - Aug 2017
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- Gave review session on data structures and helped students on their project design.

AI FRONTIERS CONFERENCE	ORGANIZER	Sep 2016 - Present
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- Build AI Frontiers' conference website and manage its digital marketing.
- Track user behavior flow to improve user experience, and help marketing team retarget users.
- Write scripts so that the website can be generated dynamically but be hosted statically, maximizing flexibility while minimizing the possibility of server errors.
- Provide a backend for easy access and batch operation, enabling a fast, easy, and safe way to update content.

TEAMBITION	FRONT-END DEVELOPER	Sep 2015 - Dec 2015
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- Integrated Evernote, GitHub, and other third-party apps into Teambition for cross-platform collaboration.
- Upgraded Teambition's permission system so that admins can have finer access control over their projects.
- Reviewed and merged group members' code.
- Worked with UX team to improve user experience.

## PROJECTS

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PARALLEL COMPUTING (CMU 15-618)	CUDA, ISPC	2018
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Followed through the course's lectures and completed the assignments.

- Knows how to utilize multiple threads / cores to optimize programs with ISPC or CUDA.

SCHEME INTERPRETER	Python	2017
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A scheme interpreter with lexical and syntactical analysis, evaluation and application.

- Optimized the interpreter with tail call optimization, so that tail recursions are executed like normal iteration.
- Implemented call/cc special form (i.e. call-with-current-continuation), allowing a scheme procedure to keep a status snapshot and come back later. (Similar to Python's generator)
- Implemented define-macro special form, make it possible to use a pre defined macro to create a new procedure.

OBJECT TRACKING AND FOLLOWING	OpenCV, Python	2015
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A camera that identifies, tracks, and follows the object (by turning the camera).

- Used OpenCV to identify and track a specific item in a complex background.
- Programmed the camera motors so that the camera can continuously capture the object while it moves.

## SKILLS & INTERESTS

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- **LANGUAGES & SKILLS:** Python, Java, Kotlin, C, Go, C++, Swift, Javascript, MATLAB, CoffeeScript, HTML5, CSS3, SASS, Processing, Scheme, Sketch, Assembly, Photoshop, Indesign.
  - **FRAMEWORKS & TOOLS:** CUDA, ISPC, Apache Spark, Apache AsterixDB, Apache Zeppelin, Git, Unix, Vim, Django, Flask, Backbone, TensorFlow, Gulp, Hexo, Hugo.

## AWARDS & ACTIVITIES

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- Vice President of Technology of *Harbin Institute of Technology International Communication Association*.
  - House President at Berkeley Student Cooperative.
  - Tutor for UC Berkeley's COGSCI 131, *Computational Models of Cognition*.