

# zora tung

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## Education

2006–2012 **B.A. Computer Science and Honors Mathematics**, *University of California, Berkeley*, 3.78 GPA, 163.9 units. [ [ntung.com/berkeley\\_transcript.pdf](http://ntung.com/berkeley_transcript.pdf) ].

## Experience

### Vocational

- summer 2012 – **Software Developer**, *Yelp*, San Francisco, CA.  
present *Search Infrastructure*: Early Elasticsearch productionization, development of our ES data indexing system, supporting other teams, key optimization for the new Nearby page.  
*Search Data*: Basic geocode quality analysis from different providers, inferring business chains from storefront data, business deduplication, automatic categorization [ cf. blog post at [engineeringblog.yelp.com](http://engineeringblog.yelp.com) ]. I was the most senior developer & somewhat of a leader for about a year.  
Developed **vimap** [ [github.com/gatoatigrado/vimap](http://github.com/gatoatigrado/vimap) ], a small open-source library for facilitating parallel computation.
- summer 2007, **Development Intern**, *Riverbed Technology*, San Francisco, CA.  
spring 2008 Various low-level x86 parallelism performance improvements: locking primitives, etc.

### Research

- May 2009– **Research Assistant**, *UC Berkeley Parallelization Laboratory*, Berkeley, CA.  
(May 2012) Wrote a backtracking compiler for angelic synthesis [ [github.com/gatoatigrado/skalch](http://github.com/gatoatigrado/skalch) ] (see Publications section). Explored GPU optimizations via program synthesis techniques.

### Independent

- spring 2009 Wrote an experimental parallel video coder using CUDA. It used genetic algorithms to find parameters for a basic [lifting scheme] wavelet. All non-trivial processing was done using the GPU, including the genetic algorithm, compression, and decompression.

### Volunteering

- 2011–2015 **Cook**, *Berkeley Food and Housing, Russell St. Residence*, Berkeley, CA.  
2010–2011 **Tutor (geometry)**, *Berkeley High School*, Berkeley, CA.  
2006–2009 **Mentor**, *Berkeley Scholars to Cal*, Berkeley, CA.

## Personal Profile

Openly transgender & genderqueer; cooperative, responsible, patient, sensitive, non-argumentative, and receptive of others' ideas. Can follow others' direction, or be a leader.

## Computer languages, coursework

Python is my strongest language, but I'm also good with C++, Java, Haskell, Javascript, and Zsh. I've used many others in the past and am open to learning new ones.

Graduate-level coursework includes: Programming Languages, Natural Languages Processing, Algorithms, Analysis / intro topology, An Invitation to General Algebra.

## Publications

Shaon Barman, Rastislav Bodik, Sagar Jain, Yewen Pu, Saurabh Srivastava, and Nicholas Tung. Parallel programming with inductive synthesis. In *Proceedings of the 3rd USENIX conference on Hot topic in parallelism*, HotPar'11, pages 14–14, Berkeley, CA, USA, 2011. USENIX Association.

Rastislav Bodik, Satish Chandra, Joel Galenson, Doug Kimelman, Nicholas Tung, Shaon Barman, and Casey Rodarmor. Programming with angelic nondeterminism. *SIGPLAN Not.*, 45(1):339–352, 2010.