

# Mark Cui Pan

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## EDUCATION

### UW-MADISON

#### BS IN MOLECULAR BIOLOGY

May 2015 | Madison, WI

Cert. in Chinese Professional Comm.

Dean's List (four semesters)

Cumulative GPA: 3.42 out of 4

### WAUSAU WEST

#### HIGH SCHOOL DIPLOMA

May 2011 | Wausau, WI

Valedictorian

Outstanding English Student

## LINKS

Github:// [factcondenser](#)

LinkedIn:// [markcuipan](#)

Quora: // [Mark-Cui-Pan](#)

## COURSEWORK

### SELF-STUDY

HarvardX Intro to Computer Science

Michael Hartl's Ruby on Rails Tutorial

Udacity's Developing Android Apps

Andrew Ng's Machine Learning

### UNDERGRADUATE

Data Structures and Algorithms

Computer Engineering

Artificial Intelligence

## SKILLS

### PROGRAMMING

Experienced in:

Rails • React • GraphQL

RSpec • Capybara • BDD

HTML5 • CSS3 • SQL

Node • Bash • Git • Scrum

Familiar with:

Python • Java • C

AWS • Heroku • Docker

Have dabbled in:

Julia • Android •  $\LaTeX$

### LANGUAGES

Fluent

English • Cantonese

Competent:

Mandarin • Spanish

## EXPERIENCE

### WISCONSIN ENERGY INSTITUTE | SOFTWARE ENGINEER

Feb 2018 – Present | Madison, WI

- I build web tools to help researchers organize and analyze their data.
- I work with a small team of developers in an agile, value-driven environment. I frequently meet one-on-one with users to cater our software to their evolving needs.

### BAOZI TUTORS | CO-FOUNDER

Oct 2017 – Present | Hong Kong

- I built this web-based tutor-matching platform with my co-founder using **Ruby on Rails** and a test-driven, iterative workflow. I'm currently in the process of making the app **PWA-compliant** to expand our user base.
- I made a **WordPress site** to advertise my personal tutoring services and later migrated it to a **page** on my portfolio site. I built the page from scratch using HTML5, CSS3, and JS. I used Bootstrap and media queries to make it responsive and painstakingly took its **PageSpeed Insights** score from 43 to 100/100, learning tons about asset-optimization, design standards, **CDNs**, and cache-control in the process.

### OPTIMIZE YOUR GROW | CONTRACTOR

Fall 2017 | Oakland, CA

- Requests were timing out because the server was busy solving an optimization problem. Despite a dearth of resources detailing how to get Julia to play nice with Heroku, I resolved the issue and learned a ton about **Heroku's process model**, concurrency, and **task queues**.
- I also learned the value of communicating early and often - both in code and in customer relations - and gained a better appreciation for the Minimum Viable Product. The difference between 'good enough for now' and 'perfect a while later' is money my clients could be making.

## RESEARCH

### UW-MADISON DEPT. OF PSYCH. | UNDERGRADUATE RESEARCHER

Jan 2014 – Aug 2014 | Madison, WI

Assisted **Stacey Kigar** and **Prof. Tony Auger** with data collection and analysis to study epigenetic mechanisms using the central nervous system of *Rattus* spp. as a model.

Wrote a **Python script** to perform calculations and expedite cDNA synthesis.

## AWARDS & ACCOMPLISHMENTS

2014	Top Third	CS540 Intra-Class Nannon Bot Tournament
2011	National	National AP Scholar
2011	State	Wisconsin Academic Excellence Award
2011	2 <sup>nd</sup> /50	Wisconsin Science Olympiad Tournament
2011	State	DAR Good Citizens Award & Scholarship

## REFERENCES

**Westley Bonack** | Software Engineer, **Getty Images**

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