

# RANSOM WILLIAMS

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## EDUCATION

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**Southwest University for Nationalities**

*October 2012 - July 2014*

Mandarin language courses

**California Institute of Technology**

*June 2010*

B.S. in Mathematics

## 2015 ACTIVITIES

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**Tutoring**

*September – Present*

private lessons, a tutoring center, and volunteering through School on Wheels

**Cognitive science programming project**

*August – Present*

productization of UCLA Prof. L. Shams and colleagues' work and an opportunity to learn more about neuroscience and cognitive science

**Recreational math**

*July – Present*

weekly meetings with a friend to discuss readings in pure math (commutative and homological algebra, logic)

## WORK EXPERIENCE

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**Filentech**

October 2014 – December 2014

*Web Developer*

*Manila, Philippines*

- Built a web-based accounting system and cash portal for an online casino
- Java backend with Play, simple AJAX frontend with JQuery

**Cinafides Consulting**

March 2013 – June 2014

*Systems Developer*

*Chengdu, China*

- Rapid prototyping of web and mobile applications
- Hacked out some short-term projects
- Gained business experience and client-facing insight

**Synaptics**

March 2011 – July 2012

*Simulation Engineer*

*Santa Clara, CA, USA*

- Designed, developed, and maintained automated hardware testing framework
- Firmware build system edits

## RESEARCH EXPERIENCE

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### **Ecoinformatics Summer Institute, OSU**

Summer 2007

*Ecology, Atmospheric Science, Computer Science, Mech. Engineering ,*

- Work with undergraduate and early graduate researchers in an multidisciplinary environment
- Studied shallow, gravity-driven fluid flow

### **SURF (Summer Undergraduate Research Fellowship), Caltech**

Summer 2005

*Mathematics , Prof. Wilson*

- Studied Tutte's 5-flow conjecture, an old problem
- Proved a restricted case

## TECHNICAL STRENGTHS

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### **Computer Languages**

C, Python, Java, Bash, Haskell, Clojure, Javascript, SQL

### **APIs**

android, django, flask, express, play, angular, JUnit

### **Tools**

emacs, make, npm, intellij, git, maven, Debian, JSON schema

### **Concepts**

HTTP REST APIs, OOP, FP