

RANSOM WILLIAMS

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EDUCATION

California Institute of Technology

June 2010

B.S. in Mathematics

Abstract algebra, real and complex analysis, topology, combinatorics, dynamical systems

Special relativity, one-dimensional quantum mechanics

Fluid flow and Thermodynamics (Mech. Engineering)

Southwest University for Nationalities

October 2012 - Present

Mandarin language courses

RESEARCH EXPERIENCE

SURF (Summer Undergraduate Research Fellowship), Caltech

Summer 2004

Mechanical Engineering, Prof. Hunt

- Granular flow research to study the booming dunes phenomenon

SURF (Summer Undergraduate Research Fellowship), Caltech

Summer 2005

Mathematics, Prof. Wilson

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

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

WORK EXPERIENCE

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

TECHNICAL STRENGTHS

Computer Languages

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

APIs

android, django, flask, express, play

Tools

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