RANSOM WILLIAMS

(388) · 051 · 9242 ◇ auvergnerw@gmail.com

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

· Studied shallow, gravity-driven fluid flow

WORK EXPERIENCE

Cinafides Consulting   March 2013 - Present
Systems Developer   *Chengdu, China*

· Focus on long-lived web services and mobile applications
· Hacked out some short-term projects
· Gaining business experience and client-facing insight

English First and elsewhere   August 2012 - March 2013
English Teacher   *Chengdu, China*

· Taught children from ages 6 to 14 and adult intermediate students

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, lisp
APIs	sockets, subprocess, django, flask, android, GTK2 (*not* 3)
Tools	emacs, gdb, make, eclipse, intellij, git, maven, Debian