RANSOM WILLIAMS

601 620 7030 ⬦ auvergnerw@gmail.com

EDUCATION

Southwest University for Nationalities *October 2012 - July 2014*
Mandarin language courses
California Institute of Technology *June 2010*
B.S. in Mathematics

ACTIVITIES AND WORK IN OTHER AREAS

Volunteer Tutoring *September 2015 – present*
off-and-on weekly volunteering through School on Wheels

Cognitive science *October 2015 – December 2016*
participation in weekly meetings at Prof. L. Shams UCLA lab

Tutoring *September 2015 – April 2016*
private lessons, a tutoring center (2015 only), and volunteering through School on Wheels

WORK EXPERIENCE

Bargible April 2016 – May 2017
Web Developer *Los Angeles, CA, USA*

· Extensive updates to existing implementation of online game/ecommerce hybrid business concept, both technical and feature-driven
· Continued Python experience, particularly Python 3
· Initial work experience with fully modern frontend JS patterns
· Broadened understanding of the requirements management picture

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

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

- Computer Languages – Python, Javascript, C, Java, Clojure, SQL, Haskell

- APIs – core.async in Clojure, asyncio in Python 3; Python server-side web stacks, particularly Flask/werkzeug/WSGI, SQLAlchemy, and tornado/aiohttp, but some familiarity with Django as well; client-side patterns including Flux as in React and two-way data binding as in Angular; some Java, Javascript, and Clojure server-side (Play, express, ring/compojure); system-level io (e.g. sockets, subprocesses); redis pubsub; wip Om patterns client side; some AMPQ experience; system-level io (sockets, subprocesses, files) in C and Python; distant AVR work experience; GTK; very distant Java applet hobbyist experience

- Tools – emacs, git, pip, npm, lein, pulp, maven

- Concepts – HTTP REST APIs, OOP, FP, CSP, coroutines