

RANSOM WILLIAMS

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EDUCATION

Southwest University for Nationalities

October 2012 - July 2014

Mandarin language courses

California Institute of Technology

June 2010

B.S. in Mathematics

WORK EXPERIENCE

OneConcern

March 2018 – November 2022

Software Engineer

Menlo Park, CA, USA

- Contributions to github.com/oneconcern/datamon an S3/GCS frontend, git for data storage
- Initial golang work experience, worked in Python also
- Helped build and maintain application code in Python
- Deployed to Kubernetes and used Argo Workflows project

Juji

January 2018 – February 2019

Full Stack Developer

San Jose, CA, USA

- AI conversation business concept
- Initial work experience with full-stack Clojure web development
- Leveraged existing Python experience building service wrappers around ML prototyping
- Collaborated with experienced team-members
- Continued maintenance and development of an established Clojure project

Bargible

April 2016 – May 2017

Web Developer

Los Angeles, CA, USA

- Online game/ecommerce hybrid business concept
- Extensive updates to existing implementation, 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 (Consultant)

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*Simulation Engineer*

March 2011 – July 2012

Santa Clara, CA, USA

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

TECHNICAL STRENGTHS AND PROJECT EXPERIENCE

- General-purpose programming languages – Python, C, Clojure, Javascript, Go, Java, Lua, Haskell
- Domain-specific languages, dialects, and preprocessors – SQL (SQLite, Postgres), [wip] Datomic, HTML (Hiccup, React Templates, Jinja), CSS (Garden, Less), cpp
- Shell languages – zsh, ash, Perl (jk), rc
- Asynchronous programming mechanisms – CSP (goroutines, Clojure’s core.async), asyncio in Python 3
- Server-side web stacks – Compojure and hugsq as well as some familiarity with Venia and Datomic in Clojure; prefer Flask/werkzeug and friends (Marshmallow, etc.), SQLAlchemy (at least the core toolkit), and aiohttp in Python; some Java and Javascript experience (Play, express)
- Reactive web client-sides – Reagent and Rum React wrappers with or without Re-frame and Citrus state containers in CLJS; React in JS with alt.js state container (wip Redux)
- Testing utilities – standard library in Python; standard library in Clojure + doo and devcards for Clojurescript; tape+proxyquire in JS with Enzyme to emulsify React components; JUnit
- Miscellaneous APIs and standards – Immutable and Ramda (wip Monet) in JS; components and spec in Clojure; system-level io (e.g. sockets, subprocesses); redis pubsub; some AMPQ experience, some Kafka; OAuth, SAML; distant AVR work experience; very distant GTK and Java applet hobbyist experience; recent 9P fanatacism
- Miscellaneous Tools – emacs, git, magit, acme, npm, tmux, AWS EC2, [wip] Docker, Kubernetes, Jenkins (user-level), sam
- Concepts – HTTP APIs (GraphQL, REST), OOP, FP, CSP, coroutines, finite-dimensional vector spaces

ACTIVITIES AND WORK IN OTHER AREAS

Independent Study

June 2017 – August 2017

Kathmandu, Nepal

- learned a few phrases in Nepali. practiced JS and Clojure. read math, CS, and NLP texts

Volunteer Tutoring

September 2015 – May 2017

Los Angeles, CA, USA

- off-and-on weekly volunteering through School on Wheels

Cognitive science

October 2015 – December 2016

Los Angeles, CA, USA

- participation in weekly meetings at Prof. L. Shams UCLA lab

Tutoring

September 2015 – April 2016

Los Angeles, CA, USA

- private lessons, a tutoring center (2015 only), and volunteering through School on Wheels

ESL Teacher

August 2012 – February 2013

Chengdu, China

- taught classes at iSmart, a locally-owned and -operated private English school