Ransom Williams

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http://ransomw.github.io

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 maintance 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** March 2011-July 2012

*Simulation Engineer* *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 hugsql 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

Miscellanious 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

Miscellanious 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