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 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