

Ransom Williams

ransomw.github.io

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SOFTWARE ENGINEER

Data / Backend

Developer that enjoys building products that are pleasing to use and makes people's lives easier.

TECHNOLOGIES

Programming Languages: Python, C, Clojure, Javascript, Go, Lua, typescript

Domain-specific Languages, Dialects, and Preprocessors: SQL (SQLite, Postgres), HTML, CSS

Server-side Web Stack: Flask/werkzeug, SQLAlchemy, aiohttp

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

Testing Utilities: pytest, Python standard library; standard library in Clojure + doo and devcards for Clojurescript; tape+proxyquire in JS with Enzyme to emulsify React components

APIs and Standards: components and spec in Clojure; system-level io (sockets, subprocesses); redis pubsub; [wip] MongoDB, OAuth, SAML

Tools: emacs, git, magit, acme, npm, tmux, AWS EC2, [wip] Docker, Kubernetes, Jenkins (user-level), sam, Visual Studio Code

CONCEPTS

HTTP	RESTful APIs	Object Oriented Programming	Functional Programming
Agile	CSP, coroutines	Pair Programming	Finite Dimensional Vector Spaces

WORK EXPERIENCE

OneConcern, Menlo Park, CA **Software Engineer** **Mar 2018 - Nov 2022**

- Contributions to github.com/oneconcern/datamon an S3/GCS frontend, “git for data storage”
- Increased datamon throughput by writing CSP/parallelized uploads and downloads
- Debugged golang memory allocation with pprof by using freelists
- Initial golang work experience, worked in Python and used type annotations
- Helped build and maintain data-engineering and backend services’ application code in Python
- Deployed to Kubernetes and used Argo Workflows project as well as GCP pubsub
- Initial GIS work experience including PostGIS, geopandas, toolz-flavored Shapely, etc.

Juji, San Jose, CA **Full Stack Developer** **Jan 2018 - Feb 2019**

- Artificial Intelligence conversation business concept
- Rewrote front-end routing with a maintainable implementation; added features to pages
- 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

WORK EXPERIENCE, continued.**Web Developer Consulting**
Bargible, Los Angeles, CA**Mar 2013 - May 2017**
Apr 2016 - May 2017

- First-hire founding engineer at online game/ecommerce hybrid business concept startup
- Deployed on cloud for multiple computers from initial concept
- Extensive updates to existing implementation, both technical and feature-driven
- Continued Python experience, particularly Python 3
- Initial work experience with then-modern frontend JS patterns
- Broadened understanding of the requirements management picture through daily Scrum sessions to satisfy a working product
- Introduced Alt.js+React frontend patterns to other engineers while improving the Flask backend service to include aiohttp websockets and a redis service layer hands-on with the CTO

Filentech, Manila, Philippines**Oct 2014 - Dec 2014**

- Built a web-based accounting system and cash portal for an online casino
- Java backend with Play, simple AJAX frontend with jQuery

Cinafides Consulting, Chengdu, China, Systems Developer**Mar 2013 - Jun 2014**

- Rapid prototyping of web and mobile applications
- Hacked out some short-term projects
- Gained business experience and client-facing insight

Synaptics, Santa Clara, CA**Simulation Engineer****Mar 2011 - Jul 2012**

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

EDUCATION**California Institute of Technology**
Bachelor of Science in Mathematics**Southwest University for Nationalities**
Mandarin Language**ACTIVITIES & ADDITIONAL WORK****Independent Study, Kathmandu, Nepal****Jun 2017 - Aug 2017**

Practiced JS and Clojure, reading, math, CS, and NLP texts

Volunteer Tutoring, Los Angeles, CA**Sept 2015 - May 2017**

Off-and-on weekly volunteering through School on Wheels

Cognitive Science, Los Angeles, CA**Oct 2015 - Dec 2016**

Participation in weekly meetings at Prof. L. Shams UCLA lab

Tutoring, Los Angeles, CA**Sept 2015 - Apr 2016**

Private Lessons, a tutoring center (2015 only), and volunteering through School on Wheels

ESL Teacher, Chengdu, China**Aug 2012 - Feb 2013**

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

PERSONAL INTERESTS

Woodwinds/Guitar

Novels

Cycling

Running