**Ransom Williams**

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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 Stacks*: Flask/werkzeug over aiohttp or Quart over Hypercorn, SQLAlchemy

*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; React in TS with Apollo

*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**

**The Skin Consult, Remote Founding Engineer Sep 2023 - Oct 2023**

* Product vision: personal health and commerce platform available to retailers, patients, and doctors
* Led technical projects with a bias towards generating deployed source code and user feedback
* Python, Prompt Engineering, Flask/Quart

**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

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**WORK EXPERIENCE, continued.**

**Bargible, Los Angeles, CA 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
* Implemented Scrum SDLC to broaden understanding of the requirements management phase
* 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 (Consulting), 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, Chengdu, China, Systems Developer Mar 2013 - Jun 2014**

* Rapid prototyping of web and mobile applications
* Hacked out 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 Southwest University for Nationalities**

Bachelor of Science in Mathematics Mandarin Language



**ACTIVITIES & ADDITIONAL WORK**

**Revature,** *Pre-training* **Jul 2023 - present**

Free intensive 10-week program to upskill and refine programming capabilities; Java, SQL, Javalin, SpringBoot

**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



**CURRENT PROJECTS & OPENSOURCE**

**JXN2020ToDos -** Python, Graphene, React and Typescript Learning Project

https://github.com/ransomw/jxn-2023-todos/

**Graphene Contributions**: Participation in OpenSource Software Meetup and Code Contributions

https://github.com/graphql-python/graphene/issues/1293

**Discord Python Code Jam 2023**



**PERSONAL INTERESTS**

Woodwinds/Guitar Novels Cycling Running