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   **Founding Engineer**   **Sep 2023 - Present**
- Product vision: personal health and commerce platform available to retailers, patients, and doctors
- Leading technical projects with agile methodology and user feedback
- Python, LLMs, 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

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