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

<u>Reactive Web Client-sides</u>: 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

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

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

<u>Tools</u>: 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

## 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