# hello@Ryan Lue.com

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## Selected Work History (5 years' experience in all)

#### **Full-Stack Developer**

#### **University of Southern California (Freelance)**

2020-2021

Part of an \$800,000 NASA research grant, *Source-Differentiated Air Quality System* reports air contaminant levels at military bases across the Middle East.

Built using Roda + React + Mapbox GL + Tailwind CSS.

- Sole developer of a single-page React app + REST API for summarizing data from a 200GB+ dataset.
- Achieved a 29% reduction in median response time by replacing the default web server.
- Deployed app to a self-hosted staging server using **Docker + traefik**.
- Conducted client design review meetings to refine functionality and UI.

#### **Backend Developer**

Zammad GmbH 2018–2020

Zammad is a unified inbox for all your customer correspondences, over any channel—email, telephone, live chat, Twitter, Facebook, Telegram, and more.

Packed with team-management and automation features. Built with Rails + CoffeeScript.

- Manually replaced 13,000+ lines of dense, messy, procedural test logic with descriptive, self-documenting specs.
- Undertook **broad-scoped, structural refactorings**; e.g., touching 150+ files in a single commit.
- Found opportunities for **narrow-scoped, logical refactorings**; e.g., reducing a 41-line method to just five lines (!).
- Reduced support team workload by rewriting official docs and Getting Started guide; authored and edited internal literature and marketing copy.

# **Open-Source Projects**

#### **JavaScript Libraries**

**flatpickr:** Lightweight, powerful datetime picker

Contributor

Discovered and built out missing functionality in an official plug-in. Added test coverage around obscure UI bugs.

#### **Linux Utilities**

**Xferase:** Always-on, fully-automated photo import daemon

Creator

Part of a self-hosted alternative to cloud services like Google Photos or iCloud.

**Cram:** An extensible toolkit for automating Anki flash card creation

Creator

Studying with Anki? Build "notes" (flash cards) faster with cram.

#### **Vim Plugins**

**Barbaric:** Automatic input method switching

Creator

vim + non-Latin input = pain. Barbaric is the cure. ( $\star$  150+ stars on GitHub!)

# **Praise for Technical Writing**

@wilson says: "+300, this is a fantastic diff. As soon as a maintainer notices, I hope it gets merged."

(via https://github.com/rbenv/ruby-build/pull/1114)

@DirtyF says: "Much clearer indeed, thanks for this useful addition to the docs <a>"</a>
(via https://github.com/jekyll/jekyll/pull/5912)

/u/frickenate says : "Thank you so bloody much... Your guide was perfect."

(via https://www.reddit.com/comments/6k8nw3/ /dqf6h2f/)

### Skills

- Ruby / Rails / Roda / RSpec
- React / JavaScript (ES6) / HTML / CSS
- SQL / Relational Databases
- Linux system administration

#### **Education**

 B.A., Urban Studies and Planning UC San Diego 2010