

Mark Cui Pan

<https://markcuipan.com>
mark@markcuipan.com | 608.572.9943

EDUCATION

UW-MADISON

BS IN MOLECULAR BIOLOGY

May 2015 | Madison, WI

Cert. in Chinese Professional Comm.

Dean's List (four semesters)

WAUSAU WEST

HIGH SCHOOL DIPLOMA

May 2011 | Wausau, WI

Valedictorian

National AP Scholar

LINKS

GitHub:// [factcondenser](#)

LinkedIn:// [markcuipan](#)

Twitter:// [markcuipan](#)

COURSEWORK

SELF-STUDY

Paulo Perrotta's Metaprogramming Ruby

Sandi Metz's Practical OO Design in Ruby

Michael Hartl's Ruby on Rails Tutorial

UNDERGRADUATE

Data Structures and Algorithms

Computer Engineering

Artificial Intelligence

SKILLS

PROGRAMMING

Most comfortable with:

Ruby • Rails • JavaScript

React • RSpec • Capybara

Jest • Cypress • CSS3 • Git

Working knowledge of:

Node • Python • Java • Bash

PostgreSQL • Docker • AWS

Have dabbled in:

Elixir • GraphQL • \LaTeX

Android • Flutter • Rust

LANGUAGES

Fluent

English • Cantonese

Competent:

Mandarin • Spanish

EXPERIENCE

DOXIMITY | SOFTWARE ENGINEER

Aug 2019 – Present | Austin, TX

- I haven't actually started working here yet, so I'll update this section once I start making contributions.
- I'll be working with the Growth, Search, and Profiles teams of the world's leading professional medical network.

WISCONSIN ENERGY INSTITUTE | SOFTWARE ENGINEER

Feb 2018 – July 2019 | Madison, WI

- I designed custom domain models and user interfaces as part of an **Agile** dev team to assist 500+ researchers and administrators with a wide variety of workflows.
- I worked on a **Rails** API/**React** UI microservice for visualizing respirometry data. I used Jest and Cypress for frontend testing.
- I wrote an import script that parses output from analytical instrumentation software into **Ruby** objects; I visualized this data with **D3**.
- I built dynamic nested forms and a file tree navigator using **AJAX** and **jQuery**.
- I implemented file upload functionality with **CarrierWave** and **Minio**, an Amazon S3-compatible API.
- I audited our **Rspec** + **Capybara** test suite, making fixes to align it with industry best practices, which reduced its single-process runtime by over 20%.
- I wrote **rake** tasks to import mission-critical Excel data for reporting to the U.S. Department of Energy, the institute's primary funding source.
- I wrote shell scripts to assist with database management and config file updates, making context switches faster and less error-prone for our entire team.
- I developed against a **Docker** clone of our production **Oracle** database.
- I engaged in design discussions with my peers, mapping requirements to tools and their tradeoffs. We used **GitLab** for code reviews and **Jira** for issue tracking.

PGOETSCH SERVICES, LLC | CONTRACTOR

Winter 2017 | Wausau, WI

- I wrote code to send **SMS** messages to members of the core **JPW Industries** dev team were parts of their import script to fail.
- I built the website for **Vilas & Company** using **Jekyll** and **Amazon S3**.

OPTIMIZE YOUR GROW | CONTRACTOR

Fall 2017 | Oakland, CA

- I resolved an issue with my client's **Angular** app in which requests were timing out because his server was busy solving an optimization problem.

RESEARCH

UW-MADISON DEPT. OF PSYCH. | UNDERGRADUATE RESEARCHER

Jan 2014 – Aug 2014 | Madison, WI

- I assisted **Stacey Kigar** and **Prof. Tony Auger** with data collection and analysis to study epigenetic mechanisms in the central nervous system of rats.
- I wrote a **Python** script to perform calculations and expedite cDNA synthesis.