

Seattle, WA

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🌐 [jobhdez.github.io](https://github.com/jobhdez)

in [jobhdez](#)

🔗 [jobhdez](#)

Job Hernandez Lara

Skills

- Languages Common Lisp, Python, JavaScript, Haskell, C++
- Tech Django, DjangoRestFramework, ReactJS, Docker, AWS, Linux command line, Git, Emacs
- Other Solid engineering skills, Experience deploying web apps with docker and AWS

Projects and Open Source Participation

- March 2024 - **LLVM**, *Open Source Contributor, A compiler used by thousands of devs and big companies*
current *such as Google, Apple, Nvidia, written in C++*
- Added and shipped 9 math floating point functions, increasing coverage of the math C library by 3.7 percent. See contribution [here](#) and [here](#). See blog post [here](#).
 - Recognized for my fmaximum and fminimum functions on the [LLVM weekly newsletter](#).
 - Explored and worked inside of an unfamiliar, large, and complex codebase to enhance compatibility with the new standard (C23) for the C programming language.
- Dec 2023 - **SchemeWeb**, *Author, An API and SDK, written in Python, Django, TypeScript*
- March 2024
- Implemented a Scheme interpreter. This involved recursion over a tree data structure and gave me a better understanding of computation. See project [here](#). See blog post [here](#).
 - Designed and implemented API endpoints by thinking about the workflow of users.
 - Implemented an SDK in TypeScript that allows users to integrate a Scheme programming interview engine into their apps.
- April 2023 - **Coalton**, *Open Source Contributor, A production quantum computing language, written*
June 2023 *in Common Lisp*
- Added automatic differentiation (calculus) to Coalton programming language. See original PR [here](#). See merge [here](#). See blog post [here](#).
 - Picked up Coalton quickly and made a non trivial contribution without hand holding.
- May 2023 **Social Media RESTful Web Service**, *Author, A social media web service where people share linear algebra expressions, written in Python3, Django, Redis, Celery, RabbitMQ*
- Developed a linear algebra library and linear algebra interpreter allowing the social sharing of linear algebra expressions. See [Project](#) on Github.
 - Implemented back-end concepts such as caching, message queue, distributed task queue.
- Nov 2022- **Compiler Explorer**, *Author, A full stack web application where users can explore the*
Jan 2024 *generated code associated with computer science concepts, written in Common Lisp, JavaScript, ReactJS, MUI, Postgres, Docker, AWS*
- Developed and deployed a compiler web service using docker and AWS. See [Project](#).
 - Implemented 4 compilers that allow users to explore computer science fundamentals.

Interests

I like to study advanced [math](#).

I write a technical blog: [How Facebook scaled Memcache](#), [How the Internet works](#), and [How to deploy a Lisp Server to AWS](#).