

Seattle, WA

✉ [hj93@protonmail.com](mailto:hj93@protonmail.com)

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

in [jobhdez](#)

🔗 [jobhdez](#)

# Job Hernandez Lara

## Skills

- Languages Common Lisp, Python, JavaScript, Haskell, C
- Tech Django, DjangoRestFramework, Linux command line, Git, Emacs
- Other Core CS such as algorithms and data structures, operating systems, compilers, distributed systems, and networking; insight into system design; team oriented; knowledge of HTTP, TCP, REST; and experience utilizing NoSQL and SQL databases (e.g., redis, postgres).

## Projects

- April 2023 - **Coalton Programming Language**, *Contributor*, 814 Github stars, Common Lisp, Git, current Production System
- Added automatic differentiation (calculus) support. See contribution [here](#) and was merged [here](#). See blog post [here](#).
  - Added support for new data types.
  - Above contributions were adopted by a quantum computing company and 120 users.
  - Learned the process of building and improving software/code iteratively thereby becoming a better software engineer.
- May 2023 **Linear Algebra Interpreter Social Media**, *Independent*, Python3, Django, DjangoRest-Framework, Celery, Memcached, RabbitMQ, Redis, Git, Unit Tests
- Designed and implemented a REST API and back-end concepts
  - Implemented back-end concepts such as caching, message queue, distributed task queue.
  - Implemented friend request and authentication, asynchronous notifications, news feed.
  - Implemented an object oriented linear algebra interpreter. See [Project](#) on Github.
- Nov 2022- **"Python" to Assembly Compiler**, *Independent*, Common Lisp, Git
- Sep 2023
- Implemented a compiler for a subset of a modern programming language. See [Project](#).
  - Gained a better understanding of modern programming languages thereby becoming a better software engineer.
  - Gained a better appreciation of how high level code gets executed by the computer.
- Jan 2021- **Scholarship React Website**, *JS, ReactJS, MUI, Firebase*, Git, Agile
- June 2022
- Instrumented test coverage and increased coverage by 18 percent.
  - Shipped and implemented 15 github issues by systematically investigating the code base

## Interests

I write a technical blog. Best articles include a piece on [How the Internet works](#) and one piece on [A Semi Deep Dive into Python](#).

## Education

2012-2013 **Western Washington University**, Bellingham, WA