

# Job Hernandez Lara

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*Software developer by passion, looking to transition from the food service industry to software engineering.*

## Skills

Languages Common Lisp, Python, JavaScript, Haskell, C++  
Tech Django, DjangoRestFramework, ReactJS, Docker, AWS, Linux command line, Git, Emacs  
Other Experience working on open source production systems, 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 such as Google, Apple, Nvidia, written in C++  
○ Added support and extended the c23 standard library with new math functions. See contribution [here](#).
- April 2023 - **Coalton**, Open Source Contributor, A production quantum computing language, written in Common Lisp  
current  
○ Added automatic differentiation (calculus) to the standard library. See original PR [here](#). See merge [here](#). See blog post [here](#).  
○ Picked up Coalton quickly and made a non trivial contribution without hand holding.
- Dec 2023 - **SchemeWeb**, Author, A Scheme interpreter behind a Django API, written in Python  
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](#).
- May 2023 **Lalg Social Media**, 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- **Full Stack Compiler App**, Author, A web service consisting of several compilers, written in Common Lisp, JavaScript, ReactJS, PostgreSQL  
Jan 2024  
○ Developed and deployed a compiler web service using docker and AWS. See [Project](#).  
○ Improved the performance of one of the compilers by implementing loop optimizations.

## Interests

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

I write a technical blog: [How Facebook scaled Memcache](#), [How the Internet works](#).