

Seattle, WA

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in [jobhdez](#)

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Job Hernandez Lara

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 compiler systems (i.e., LLVM), Proven C++ skills as demonstrated through my LLVM contributions

Projects and Open Source Participation

- March 2024 - **LLVM**, *Open Source Contributor, A compiler used by thousands of devs and big companies such as Meta, Google, Apple, Nvidia*, written in C++
 - Added support and extended the C programming language with new floating point math functions. See contribution [here](#).
 - Explored and worked inside of an unfamiliar and complex codebase to enhance compatibility with the new standard (C23) for the C programming language.
- Jan 2024 **x86 Compiler**, *Author, A compiler for a small language that generates x86-64 assembly and C*, written in Haskell
 - Implemented tuple compilation. This involved thinking in binary since this required interfacing with the garbage collector.
- Dec 2023 - **Deep learning compiler**, *Author, A deep learning compiler, written in Python*
- Jan 2024 ○ Investigated how production deep learning compilers (e.g., TVM) work and applied my findings to compile a Pytorch convolutional neural network to C. See project [here](#). See blog post [here](#).
- April 2023 - **Coalton**, *Open Source Contributor, A production quantum computing language, written in Common Lisp*
- June 2023 ○ Added automatic differentiation (calculus) to the standard library. See original PR [here](#). See merge [here](#). See blog post [here](#).

Interests

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

I write a technical blog: [How CPU architecture works](#).

Education

2012-2013 Western Washington University