

# Chloe MacGregor

A swiss army knife computer scientist.

📍 RPI 📞 [+1 512-457-1804](tel:+15124571804) @ [chloemacgregor29@gmail.com](mailto:chloemacgregor29@gmail.com) 🌐 <https://chloe.wiki>

Education	<b>Rensselaer Polytechnic Institute</b> Sophomore	<b>2022-08-15 - Present</b> Bachelors Computer Science, Bachelors Mathematics
Summary	<p>A developer knowledgable with computers on all levels. Deep knowledge in:</p> <ul style="list-style-type: none"><li>• Low-level (Rust, C, LLVM IR, assembly, syscalls)</li><li>• High-level (Python, Java, and C++)</li><li>• Functional (Javascript, Haskell)</li><li>• Compiler development (frontend and backend)</li><li>• Novel compiler targets (interaction nets)</li></ul> <p>Fairly familiar with:</p> <ul style="list-style-type: none"><li>• HPC (pipelining, SIMD, dataflow analysis)</li><li>• Frontend on the web with Svelte, Sveltekit, and Tailwind CSS</li></ul>	
Projects	<b>Synbil</b> Metalanguage <a href="https://chloe.wiki/Synbil.html">🌐 https://chloe.wiki/Synbil.html</a>  A metalanguage that enables writing syntax alongside code. A new way to look at language interop, with exciting opportunities for the performance of webapps.	<b>2024-1-20 - Present</b>
	<b>Brevis</b> Programming Language <a href="https://chloe.wiki/Brevis">🌐 https://chloe.wiki/Brevis</a>  A general-purpose, non-garbage-collected language compiling to C89, Python, and Javascript. The compiler is built entirely in Rust, is just 3.5K lines of code, and is fully ported to the web, allowing a playground to be built client-side.	<b>2021-05-31 - 2022-03-29</b>
Experience	<b>Bold MFG &amp; Supply</b> Production Assistant <a href="https://www.boldmfg.com/">🌐 https://www.boldmfg.com/</a> <ul style="list-style-type: none"><li>• Responsible for boxing+shipping of various fragile, high-value items like powder-coated handrail</li><li>• Operated a metal bending break machine, involving usage and storage of highly fragile removable parts worth \$10,000 - \$70,000 individually</li><li>• Trained and entrusted to use heavy machinery on short notice</li></ul>	<b>2023-06-04 - 2023-09-14</b>
	<b>Geek Squad</b> Geek Squad Advanced Repair Technician <ul style="list-style-type: none"><li>• Component-level repair of client computers</li><li>• Performed malware removal on about a dozen devices</li><li>• Responsible for documenting the repair process, and communicating with the client throughout</li></ul>	<b>2021-06-01 - 2021-09-20</b>