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I hacked on Kaffe for a while as part of my undergraduate thesis, which explored how modifications to the JVM's classloader and bytecode verifier could allow for a more expressive source language (specifically LOOJ, an extension of Java that adds parametric polymorphism as well as the notions of [ThisType](#), [ThisClass](#), and exact types to Java). The modifications would also allow the JVM to be more easily targeted by a wider range of source language (e.g. ML cannot really target the current JVM spec very well because of the constraints of the JVM's static type system).

I wrote most of a bytecode verifier for Kaffe ~~enough to test the modifications proposed in my thesis~~ but never completed it (e.g. it was a little buggy and didn't adequately deal with the asinine bytecode subroutine instruction, JSR). [TomTromey](#) wrote a complete verifier for GCJ that we were planning a merging into Kaffe as a replacement.

I currently work for IBM's Internet Technology Group in Cambridge and hope to hack on Harmony as much as I'm able to on the side.