**Ömer Sinan Ağacan, CV**

**Personal info**

I'm a 23-year-old programmer. I write compilers and various other stuff. I'm hoping to get into programming languages research one day. Keywords: Haskell, compilers, virtual machines, programming language theory, dependent types and theorem proving, verification, open source.

*Email:* omeragacan@gmail.com
*Github:* http://github.com/osa1
*Blog:* http://osa1.net/
*StackOverflow:* http://stackoverflow.com/users/691032/sinan

**Education**

TOBB University of Economics and Technology, 2009 – 2014

**Programming Skills**

*Languages:* Fluent in Haskell, Lua, JavaScript, Python, Java. Working knowledge of OCaml, Common Lisp, Scheme, Factor, Prolog, and C++.

*Development environment:* Linux, zsh, git, vim (my config: https://github.com/osa1/rcbackup )

**Projects**

Some projects I'm actively contributing/maintaining/developing:
- *GHCJS (contributor) – JavaScript backend for GHC*
- *K Framework (contributor) –* Executable semantic framework for defining programming languages
- *language-lua (owner) –* Lua 5.2 lexer, parser and pretty-printer for Haskell
- *hslua (maintainer and developer) –* Lua 5.1 and 5.2 interface for Haskell
- *GHC (contributor) –* A state-of-the-art, open source, compiler and interactive environment for the functional language Haskell

Projects I contributed to in the past:
- *Fay –* compiler from a subset of Haskell to JavaScript
- *LLVM Haskell bindings*

I'm also developing experimental interpreters and type checkers (with type inference) and developing 2D games with friends on some occasions (like game jams).

## Experience

*Google Summer of Code for Haskell.org organization – 2014*
3 month. I implemented some of GHC's profiling features(cost-centers, emulated call stacks) for GHCJS, JavaScript backend for GHC.

*Soostone – 2014*
3 month. I worked as a Software Engineer (Haskell).

*University of Illinois at Urbana-Champaign, Champaign, IL, United States – 2013*
3.5-month internship at Formal Systems Laboratory. We're developing K Framework, which is a rewrite-based executable semantic framework for programming languages, type systems and formal analysis tools can be defined.

*Özyeğin University, Istanbul, Turkey – 2013*
3.5-month internship under supervision of Prof. Baris Aktemur: Developed an interpreter for a statically typed multi-staged programming language with subtyping, row polymorphism and type inference. Performed extensive literature reading. Implemented in OCaml. Currently working on a research paper for the dissemination of results.

*OBSS, Istanbul, Turkey – 2012*
3.5-month internship: I developed a simple static analysis tool for GrayMound, a Java framework based on J2EE and an Eclipse plugin.

*TUBITAK (The Scientific and Technological Research Council of Turkey), Kocaeli, Turkey – 2010*
4-week internship: Developed the web front-end for PiSi, package manager of Pardus(a GNU/Linux distribution from TUBITAK).